

PC TEL INC  
Form 10-Q  
November 08, 2016

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2016

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from            to

Commission File Number 000-27115

PCTEL, Inc.

(Exact Name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation or Organization)	77-0364943 (I.R.S. Employer Identification Number)
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471 Brighton Drive, Bloomington, IL (Address of Principal Executive Office)	60108 (Zip Code)
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(630) 372-6800

(Registrant's Telephone Number, Including Area Code)

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Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definition of "accelerated filer" "large accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer	Accelerated filer
Non-accelerated filer (do not check if a smaller reporting company)	Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date.

Title	Outstanding
Common Stock, par value \$.001 per share	17,339,314 as of November 7, 2016

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PCTEL, INC.

Form 10-Q

For the Quarterly Period Ended September 30, 2016

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## PART I – FINANCIAL INFORMATION

## Item 1: Financial Statements (unaudited)

PCTEL, INC.

## CONDENSED CONSOLIDATED BALANCE SHEETS

(in thousands, except share data)

	(unaudited)	
	September 30, 2016	December 31, 2015
<b>ASSETS</b>		
Cash and cash equivalents	\$ 13,105	\$ 7,055
Short-term investment securities	18,099	24,728
Accounts receivable, net of allowance for doubtful accounts of \$252 and \$314 at September 30, 2016 and December 31, 2015, respectively	17,997	21,001
Inventories, net	14,705	17,596
Prepaid expenses and other assets	1,300	1,586
Total current assets	65,206	71,966
Property and equipment, net	13,123	13,839
Goodwill	3,332	3,332
Intangible assets, net	4,724	11,378
Deferred tax assets, net	9,264	13,155
Other noncurrent assets	38	40
<b>TOTAL ASSETS</b>	<b>\$ 95,687</b>	<b>\$ 113,710</b>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Accounts payable	\$ 5,307	\$ 6,735
Accrued liabilities	5,542	6,190
Total current liabilities	10,849	12,925
Other long-term liabilities	447	388
Total liabilities	11,296	13,313
Stockholders' equity:		
Common stock, \$0.001 par value, 100,000,000 shares authorized, 17,350,796 and 17,654,236 shares issued and outstanding at September 30, 2016 and December 31, 2015, respectively	17	18
Additional paid-in capital	134,778	135,714

Accumulated deficit	(50,263 )	(35,320 )
Accumulated other comprehensive loss	(141 )	(15 )
Total stockholders' equity	84,391	100,397
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 95,687	\$ 113,710

The accompanying notes are an integral part of these condensed consolidated financial statements.

PCTEL, INC.

## CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (unaudited)

(in thousands, except per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
REVENUES	\$24,687	\$26,526	\$70,004	\$80,477
COST OF REVENUES	15,750	18,063	44,779	52,495
GROSS PROFIT	8,937	8,463	25,225	27,982
OPERATING EXPENSES:				
Research and development	2,451	2,863	7,581	8,506
Sales and marketing	3,396	3,603	9,925	10,558
General and administrative	2,890	2,847	9,157	9,513
Amortization of intangible assets	250	958	1,430	2,535
Impairment of intangible assets	0	0	4,724	0
Restructuring expenses	113	413	654	852
Total operating expenses	9,100	10,684	33,471	31,964
OPERATING LOSS	(163 )	(2,221 )	(8,246 )	(3,982 )
Other income, net	35	534	49	2,783
LOSS BEFORE INCOME TAXES	(128 )	(1,687 )	(8,197 )	(1,199 )
(Benefit) expense for income taxes	(303 )	(625 )	4,157	(451 )
NET INCOME (LOSS)	\$175	\$(1,062 )	\$(12,354)	\$(748 )
Net Income (Loss) per Share:				
Basic	\$0.01	\$(0.06 )	\$(0.77 )	\$(0.04 )
Diluted	\$0.01	\$(0.06 )	\$(0.77 )	\$(0.04 )
Weighted Average Shares:				
Basic	16,106	17,626	16,136	18,059
Diluted	16,245	17,626	16,136	18,059
Cash dividend per share	\$0.05	\$0.05	\$0.15	\$0.15

The accompanying notes are an integral part of these condensed consolidated financial statements.

PCTEL, INC.

## CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (unaudited)

(in thousands, except per share data)

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
NET INCOME (LOSS)	\$175	\$(1,062)	\$(12,354)	\$(748)
OTHER COMPREHENSIVE LOSS:				
Foreign currency translation adjustments	(14)	(82)	(126)	(76)
COMPREHENSIVE INCOME (LOSS)	\$161	\$(1,144)	\$(12,480)	\$(824)

The accompanying notes are an integral part of these condensed consolidated financial statements.

PCTEL, INC.

## CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

(in thousands)

	Common Stock	Additional Paid-In Capital	Retained Deficit	Accumulated Other Comprehensive Income (Loss)	Total Stockholders' Equity of PCTEL, Inc.
BALANCE at JANUARY 1, 2016	\$ 18	\$ 135,714	\$(35,320)	\$ (15 )	\$ 100,397
Stock-based compensation expense	0	3,187	0	0	3,187
Issuance of shares for stock purchase and option plans	0	649	0	0	649
Cancellation of shares for payment of withholding tax	0	(365 )	0	0	(365 )
Repurchase of common stock	(1 )	(4,094 )	0	0	(4,095 )
Stock option forfeitures	0	(313 )	0	0	(313 )
Dividends paid	0	0	(2,589 )	0	(2,589 )
Net loss	0	0	(12,354)	0	(12,354 )
Change in cumulative translation adjustment, net	0	0	0	(126 )	(126 )
BALANCE at SEPTEMBER 30, 2016	\$ 17	\$ 134,778	\$(50,263)	\$ (141 )	\$ 84,391

The accompanying notes are an integral part of these condensed consolidated financial statements



PCTEL, INC.

## CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(unaudited, in thousands)

	Nine Months Ended September 30,	
	2016	2015
<b>Operating Activities:</b>		
Net loss	\$(12,354)	\$(748 )
Adjustments to reconcile net loss to net cash provided by operating activities:		
Depreciation and amortization	4,335	5,261
Stock-based compensation	3,187	1,392
Impairment of intangible assets	4,724	0
Loss (gain) on disposal/sale of property and equipment	4	(18 )
Restructuring costs	112	485
Payment of withholding tax on stock based compensation	(365 )	(412 )
Deferred tax provision	3,887	(640 )
Changes in operating assets and liabilities, net of acquisitions:		
Accounts receivable	2,946	8,641
Inventories	2,793	(908 )
Prepaid expenses and other assets	280	(619 )
Accounts payable	(1,360 )	56
Income taxes payable	(153 )	(110 )
Other accrued liabilities	(891 )	(3,535 )
Deferred revenue	12	(1,044 )
Net cash provided by operating activities	7,157	7,801
<b>Investing Activities:</b>		
Capital expenditures	(1,699 )	(1,583 )
Proceeds from disposal of property and equipment	1	40
Purchases of investments	(47,552)	(20,277)
Redemptions/maturities of short-term investments	54,181	38,426
Purchase of assets	0	(20,500)
Net cash provided by (used in) investing activities	4,931	(3,894 )
<b>Financing Activities:</b>		
Proceeds from issuance of common stock	649	1,018
Payments for repurchase of common stock	(4,095 )	(9,693 )
Cash dividends	(2,589 )	(2,770 )
Net cash used in financing activities	(6,035 )	(11,445)
Net increase (decrease) in cash and cash equivalents	6,053	(7,538 )

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Effect of exchange rate changes on cash	(3 )	(7 )
Cash and cash equivalents, beginning of year	7,055	20,432
Cash and Cash Equivalents, End of Period	\$13,105	\$12,887

The accompanying notes are an integral part of these condensed consolidated financial statements.

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PCTEL, INC.

## NOTES TO THE CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

For the Three and Nine Months Ended September 30, 2016 (Unaudited)  
(in thousands except share data and as otherwise noted)

### 1. Basis of Presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. generally accepted accounting principles for complete financial statements. In the opinion of management, all adjustments (consisting of normal recurring accruals) considered necessary for a fair presentation have been included. For further information, refer to the audited consolidated financial statements and footnotes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2015.

### Nature of Operations

PCTEL, Inc. ("PCTEL", the "Company", "we", "ours", and "us") delivers Performance Critical Telecom solutions. RF Solutions develops and provides test equipment, software and engineering services for wireless networks. The industry relies upon PCTEL to benchmark network performance, analyze trends, and optimize wireless networks. Connected Solutions designs and delivers performance critical antennas and site solutions for wireless networks globally. PCTEL antennas support evolving wireless standards for cellular, private, and broadband networks. PCTEL antennas and site solutions support networks worldwide, including Supervisory Control and Data Acquisition ("SCADA") for oil, gas and utilities, fleet management, industrial operations, health care, small cell and network timing deployment, defense, public safety, education, and broadband access.

### Segment Reporting

PCTEL operates in two segments for reporting purposes, Connected Solutions and RF Solutions. The Company's chief operating decision maker uses operating profits and identified assets for the Connected Solutions and RF Solutions segments to make operating decisions. Each segment has its own segment manager as well as its own engineering, sales and marketing, and operational general and administrative functions. All of the Company's accounting and finance, human resources, IT and legal functions are provided on a centralized basis through the corporate function. The Company manages its balance sheet and cash flows centrally at the corporate level, with the exception of trade accounts receivable and inventory which is managed at the segment level. Each of the segment managers reports to and maintains regular contact with the chief operating decision maker to discuss operating activities, financial results, forecasts, or plans for the segment.

### Connected Solutions Segment

Connected Solutions designs and delivers performance critical antennas and site solutions for wireless networks globally. The Company's antennas and site solutions support networks worldwide, including SCADA for oil, gas and utilities, fleet management, industrial operations, health care, small cell and network timing deployment, defense, public safety, education, and broadband access. PCTEL's performance critical antenna solutions include high rejection and high performance GPS and GNSS products, the industry leading Yagi portfolio, mobile and indoor LTE,

broadband, and LMR antennas and PIM-rated antennas for transit, in-building, and small cell applications. The Company leverages its design, logistics, and support capabilities to deliver performance critical site solutions into carrier, railroad, and utility applications. Revenue growth for antenna and site solutions is primarily driven by the increased use of wireless communications in these vertical markets. PCTEL's antenna and site solution products are primarily sold through distributors, value-added resellers, and original equipment manufacturer ("OEM") providers.

There are many competitors for antenna products, as the market is highly fragmented. Competitors include Laird (Cushcraft, Centurion, and Antennex products), Mobile Mark, Radiall/Larsen, Comtelco, Wilson, Commscope (Andrew products), and Kathrein, among others. The Company seeks out product applications that command a premium for product performance and customer service, and avoids commodity markets.

PCTEL maintains expertise in several technology areas in order to be competitive in the antenna engineered site solutions market. These include radio frequency engineering, mobile antenna design and manufacturing, mechanical engineering, product quality and testing, and wireless network engineering.

## RF Solutions Segment

RF Solutions develops and provides performance critical test equipment, software, and engineering services for wireless networks. The industry relies upon PCTEL to benchmark network performance, analyze trends, and optimize wireless networks. SeeGull® scanning receivers are used around the world for indoor and drive test applications, including baseline testing, acceptance testing, competitive benchmarking, spectrum clearing, troubleshooting, and network optimization. SeeGull scanning receivers provide high quality real-world RF measurements needed to build, tune, troubleshoot, and expand commercial wireless networks. The Company's highly-trained engineering services team uses state-of-the-art test, measurement, and design tools to provide engineering services for in-building and outdoor networks. The Company's engineering services team provides wireless network testing, optimization, design, integration, and consulting services, with an emphasis on in-building distributed antenna systems ("DAS"). Revenue growth for the segment's products and services is driven by the deployment of products based on new wireless technology and the need for wireless networks to be tuned and reconfigured on a regular basis. Scanning receiver products are sold primarily through test and measurement value-added resellers and to a lesser extent directly to network operators. Competitors for these products include OEMs such as JDS Uniphase, Rohde and Schwarz, Anritsu, Digital Receiver Technology, and Berkley Varitronics.

On February 27, 2015, PCTEL acquired substantially all of the assets of, and assumed certain specified liabilities of, Nexgen Wireless, Inc. ("Nexgen"), pursuant to an Asset Purchase Agreement dated as of February 27, 2015. From the acquired business, the Company provides a network analysis tool portfolio now known as SeeHawk® Analytics, and engineering services. The software product portfolio translates real-time network performance data into engineering actions to optimize operator performance and supports crowd-based, cloud-based data analysis to enhance network performance. Engineering services include performance engineering, specialized staffing, and trend analysis for carriers, infrastructure vendors, and neutral hosts for 2G, 3G, 4G, and LTE networks. Refer to Note 7 for additional information on the Nexgen acquisition.

PCTEL maintains expertise in several technology areas in order to be competitive in the scanning receiver and related engineering services market. These include radio frequency engineering, DSP engineering, manufacturing, mechanical engineering, product quality and testing, and wireless network engineering.

## Basis of Consolidation

The condensed consolidated balance sheet as of September 30, 2016 and the condensed consolidated statements of operations, statements of comprehensive loss, and cash flows for the nine months ended September 30, 2016 and 2015, respectively, are unaudited and reflect all adjustments of a normal recurring nature that are, in the opinion of management, necessary for a fair presentation of the interim period financial statements. The interim condensed consolidated financial statements are derived from the audited financial statements as of December 31, 2015.

Certain prior year amounts have been reclassified for consistency with the current period presentation. The statements of operations for the three and nine months ended September 30, 2015 include reclassifications between cost of revenues and operating expenses for intangible amortization. The Company reclassified \$0.2 million and \$0.4 million from operating expense to cost of revenues for the three and nine months ended September 30, 2015, respectively. These reclassifications did not affect the operating loss or net income for the three and nine months ended September 30, 2015.

The unaudited interim condensed consolidated financial statements of the Company have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission ("SEC"). Accordingly, certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the U.S. have been condensed or omitted. The significant accounting policies followed by the Company are set forth within the Company's Annual Report on Form 10-K for the year ended December 31, 2015 ("the 2015 Form 10-K"). There were no changes in the Company's significant accounting policies during the nine months

ended September 30, 2016. In addition, the Company reaffirms the use of estimates in the preparation of the financial statements as set forth in the 2015 Form 10-K. These interim condensed consolidated financial statements should be read in conjunction with the Company's audited consolidated financial statements and notes thereto included in the 2015 Form 10-K. The results of operations for the period ended September 30, 2016 may not be indicative of the results for the period ending December 31, 2016.

#### Foreign Operations

The Company is exposed to foreign currency fluctuations due to its foreign operations and because products are sold internationally. The functional currency for the Company's foreign operations is predominantly the applicable local currency. Accounts of foreign operations are translated into U.S. dollars using the exchange rate in effect at the applicable balance sheet date for assets and liabilities and average monthly rates prevailing during the period for revenue and expense accounts. Adjustments resulting from translation are included in accumulated other comprehensive income (loss), a separate component of shareholders' equity. Gains and losses resulting from other transactions originally in foreign currencies and then translated into U.S. dollars are included in the condensed consolidated

statement of operations. Net foreign exchange gains resulting from foreign currency transactions included in other income, net were \$11 and \$5 for the three months ended September 30, 2016 and 2015, respectively. Net foreign exchange losses resulting from foreign currency transactions included in other income, net were (\$24) and (\$23) for the nine months ended September 30, 2016 and 2015, respectively.

#### Recent Accounting Pronouncements

In August 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2016-15, Statement of Cash Flows (Topic 230): Classification of certain cash receipts and cash payments (a consensus of the emerging issues take force). This ASU addresses the following eight specific cash flow issues: Debt prepayment or debt extinguishment costs; settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant in relation to the effective interest rate of the borrowing; contingent consideration payments made after a business combination; proceeds from the settlement of insurance claims; proceeds from the settlement of corporate-owned life insurance policies (including bank-owned life insurance policies); distributions received from equity method investees; beneficial interests in securitization transactions; and separately identifiable cash flows and application of the predominance principle. This guidance will be effective for the Company for annual reporting periods beginning after December 15, 2017. The Company does not believe the guidance will have a material impact on its consolidated financial statements.

In March 2016, the FASB issued ASU No. 2016-09, Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting. ASU No. 2016-09 affects all entities that issue share-based payment awards to their employees. ASU No. 2016-09 simplifies several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows, including recognizing all excess tax benefits and tax deficiencies as income tax expense or benefit in the income statement rather than in additional paid-in capital. ASU No. 2016-09 is effective for financial statements issued for annual reporting periods beginning after December 15, 2016 and interim periods within those years. Earlier application is permitted. The Company is currently evaluating the impact the standard may have on its consolidated financial statements and related disclosures.

In February 2016, the FASB issued ASU No. 2016-02, "Leases (Topic 842)," which requires lessees to recognize assets and liabilities for the rights and obligations created by most leases on their balance sheet. The guidance is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early application is permitted. ASU 2016-02 requires modified retrospective adoption for all leases existing at, or entered into after, the date of initial application, with an option to use certain transition relief. The Company is currently evaluating the impact the standard may have on its consolidated financial statements and related disclosures.

In November 2015, the FASB issued ASU 2015-17, Balance Sheet Classification of Deferred Taxes, to simplify the presentation of deferred income taxes. The amendments in this update require that deferred tax assets and liabilities be entirely classified as noncurrent within the statement of financial position. Effective December 31, 2015, the Company early adopted the balance sheet classification of deferred taxes on a prospective basis. The guidance requires deferred tax assets and liabilities to be classified as noncurrent rather than split between current and noncurrent. Approximately \$1.8 million in current deferred tax assets was reclassified to long-term deferred tax assets at December 31, 2015.

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers" which introduces a new revenue recognition model in which an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. ASU 2014-09 defines a five step process to achieve this core principle and, in doing so, more judgment and estimates may be required within the revenue recognition process than are required

under existing U.S. GAAP. This ASU also requires disclosures sufficient to enable users to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers, including qualitative and quantitative disclosures about contracts with customers, significant judgments and changes in judgments, and assets recognized from the costs to obtain or fulfill a contract. The FASB has voted to approve a one-year deferral of the effective date from January 1, 2017 to January 1, 2018, while allowing for early adoption as of January 1, 2017. The new accounting standard is expected to have an impact to the Company's consolidated financial statements. The Company is currently evaluating the adoption method options and the impact of the new guidance on our consolidated financial statements.

## 2. Fair Value of Financial Instruments

The Company follows accounting guidance for fair value measurements and disclosures, which establishes a fair value hierarchy that requires the Company to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Fair value is a market-based measurement that should be determined based on assumptions that market participants would use



in pricing an asset or liability. As a basis for considering such assumptions, a three-tier fair value hierarchy has been established, which prioritizes the inputs used in measuring fair value as follows:

Level 1: inputs are unadjusted quoted prices in active markets for identical assets or liabilities.

Level 2: inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices in active markets for similar assets and liabilities, quoted prices for identical or similar assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of assets or liabilities.

Level 3: unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

Cash equivalents are measured at fair value and investments are recognized at amortized cost in the Company's financial statements. Accounts receivable and other investments are financial assets with carrying values that approximate fair value due to the short-term nature of these assets. Accounts payable is a financial liability with a carrying value that approximates fair value due to the short-term nature of these liabilities.

### 3. Earnings per Share

The following table is the computation of basic and diluted earnings per share:

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
<b>Basic Earnings Per Share computation:</b>				
Numerator:				
Net (loss) income	\$ 175	\$(1,062 )	\$(12,354 )	\$(748 )
Denominator:				
Common shares outstanding	16,106	17,626	16,136	18,059
Earnings per common share - basic				
Net (loss) income	\$0.01	\$(0.06 )	\$(0.77 )	\$(0.04 )
<b>Diluted Earnings Per Share computation:</b>				
Denominator:				
Common shares outstanding	16,106	17,626	16,136	18,059
Restricted shares subject to vesting	139	*	*	*
Common stock option grants	0	*	*	*
Total shares	16,245	17,626	16,136	18,059
Earnings per common share - diluted				
Net (loss) income	\$0.01	\$(0.06 )	\$(0.77 )	\$(0.04 )

\* As denoted by "\*" in the table above, the weighted average common stock option grants and restricted shares of 140,000 for the nine months ended September 30, 2016 and 183,000 and 369,000 for the three and nine months

ended September 30, 2015, respectively, were excluded from the calculations of diluted net loss per share since their effects are anti-dilutive.

4. Cash, Cash Equivalents and Investments

The Company's cash and investments consisted of the following:

	September 30, 2016	December 31, 2015
Cash	\$ 5,426	\$ 6,077
Cash equivalents	7,679	978
Short-term investments	18,099	24,728
	\$ 31,204	\$ 31,783

Cash and Cash equivalents

At September 30, 2016, cash and cash equivalents included bank balances and investments with original maturities less than 90 days. At September 30, 2016 and December 31, 2015, the Company's cash equivalents were invested in highly liquid AAA rated money market funds that are required to comply with Rule 2a-7 of the Investment Company Act of 1940. Such funds utilize the amortized

cost method of accounting, seek to maintain a constant \$1.00 per share price, and are redeemable upon demand. The Company restricts its investments in AAA money market funds to those invested 100% in either short-term U.S. government agency securities or bank repurchase agreements collateralized by these same securities. The fair values of these money market funds are established through quoted prices in active markets for identical assets (Level 1 inputs). The cash in the Company's U.S. banks is insured by the Federal Deposit Insurance Corporation up to the insurable limit of \$250.

At September 30, 2016, the Company had \$5.4 million in cash and \$7.7 million in cash equivalents, and at December 31, 2015, the Company had \$6.1 million in cash and \$1.0 million in cash equivalents. The Company had \$2.3 million and \$1.3 million of cash and cash equivalents in foreign bank accounts at September 30, 2016 and December 31, 2015, respectively. Within the cash in foreign bank accounts, the Company had cash of \$2.0 million and \$0.8 million in China bank accounts at September 30, 2016 and December 31, 2015, respectively. The Company expects to repatriate the cash from its subsidiary in Israel during 2017. The Company ceased ongoing operations of this subsidiary during the third quarter 2016 and expects to liquidate the subsidiary in 2017. In December 2015 the Company recorded the expense for the estimated incremental income tax of \$0.1 million related to the repatriation of the funds from Israel. The Company does not expect the foreign currency exchange related to the repatriation of these funds to have a material impact on the financial statements. As of September 30, 2016, the Company has no intentions of repatriating the cash in its foreign bank accounts in the U.K. or China. If the Company decides to repatriate the cash in the foreign bank accounts, it may experience difficulty in doing so in a timely manner. The Company may also be exposed to foreign currency fluctuations and taxes if it repatriates these funds. The Company's cash in its foreign bank accounts is not insured.

#### Investments

At September 30, 2016 and December 31, 2015, the Company's short-term investments consisted of pre-refunded municipal bonds, U.S. government agency bonds, AA or higher rated corporate bonds, and certificates of deposit, all classified as held-to-maturity. At September 30, 2016, the Company had invested \$4.7 million in AA rated or higher corporate bonds, \$3.5 million in U.S. government agency bonds, \$5.8 million in pre-refunded municipal bonds and \$4.1 million in certificates of deposit. The income and principal from the pre-refunded municipal bonds are secured by an irrevocable trust of U.S. Treasury securities. The bonds have original maturities greater than 90 days and mature in less than one year. The Company's bond investments are recorded at the purchase price and carried at amortized cost. The net unrealized gains (losses) were \$(8) and \$1 at September 30, 2016 and December 31, 2015, respectively. Approximately 6% and 11% of the Company's bond investments were protected by bond default insurance at September 30, 2016 and December 31, 2015, respectively.

At December 31, 2015, the Company had invested \$7.6 million in AA rated or higher corporate bond funds, \$7.5 million in pre-refunded municipal bonds and taxable bond funds, \$7.0 million in U.S. government agency bonds, and \$2.7 million in certificates of deposit.

The Company categorizes its financial instruments within a fair value hierarchy according to accounting guidance for fair value. The fair value hierarchy is described under the Fair Value of Financial Instruments in Note 2. For the Level 2 investments, the Company uses quoted prices of similar assets in active markets.

Cash equivalents and Level 1 and Level 2 investments measured at fair value were as follows at September 30, 2016 and December 31, 2015:

September 30, 2016

December 31, 2015

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	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
<b>Cash equivalents:</b>								
Money market funds and other cash equivalents	\$7,677	\$0	\$ 0	\$7,677	\$978	\$0	\$ 0	\$978
<b>Investments:</b>								
Pre-refunded municipal bonds	0	5,783	0	5,783	0	7,497	0	7,497
Corporate bonds	0	4,686	0	4,686	0	7,558	0	7,558
US government agency bonds	0	3,500	0	3,500	0	7,008	0	7,008
Certificates of deposit	4,124	0	0	4,124	2,666	0	0	2,666
Total	\$11,801	\$13,969	\$ 0	\$25,770	\$3,644	\$22,063	\$ 0	\$25,707

5. Goodwill and Intangible Assets

Goodwill

There were no changes to goodwill during the nine months ended September 30, 2016. The \$3.3 million of goodwill on the balance sheet was recorded in February 2015 as part of the purchase accounting for the Nexgen acquisition and was assigned to the RF

Solutions segment. For evaluation purposes, this goodwill is part of the products reporting unit within the RF Solutions segment. There were no triggering events for the products reporting unit of the RF Solutions segment during the quarter ended September 30, 2016. The Company will continue to monitor goodwill going forward.

#### Intangible Assets

The Company amortizes intangible assets with finite lives on a straight-line basis over the estimated useful lives, which range from one to eight years. Amortization expense was approximately \$0.4 million and \$1.1 million for the three months ended September 30, 2016 and 2015, respectively. Amortization expense was approximately \$1.9 million and \$3.0 million for the nine months ended September 30, 2016 and 2015, respectively. Amortization for technology assets is included in cost of revenues and amortization for all other intangible assets is included in operating expenses. For the three and nine months ended September 30, 2016, \$0.2 million and \$0.5 million of the amortization expense was included in cost of revenues. For the three and nine months ended September 30, 2015, \$0.2 million and \$0.4 million of the amortization expense was included in cost of revenues.

The summary of other intangible assets, net is as follows:

	September 30, 2016			December 31, 2015		
	Cost	Accumulated Amortization	Net Book Value	Cost	Accumulated Amortization	Net Book Value
Customer contracts and relationships	\$25,497	\$ 24,344	\$1,153	\$25,497	\$ 18,616	\$6,881
Patents and technology	10,114	7,837	2,277	10,114	7,337	2,777
Trademarks and trade names	4,960	4,022	938	4,960	3,738	1,222
Other	2,743	2,387	356	2,743	2,245	498
	\$43,314	\$ 38,590	\$4,724	\$43,314	\$ 31,936	\$11,378

The \$6.6 million decrease in the net book value of intangible assets at September 30, 2016 compared to December 31, 2015 consists of amortization expense of \$1.9 million recorded for the nine months ended September 30, 2016 and \$4.7 million recorded for impairment of customer relationships that was recorded in the second quarter 2016.

During the second quarter of 2016 the revenue and contribution margin of the services reporting unit within the RF Solutions segment were below the forecast that was used during the intangible asset impairment test at March 31, 2016. While the sequential quarterly revenue and contribution margin improved, it is still reflective of a long-term slowdown in the DAS market which is the primary market addressed by our service offering. The Company considered the changes to its forecast and the industry and market trends as a triggering event to assess the intangible assets of the service reporting unit for impairment. The Company reviewed its intangible assets for impairment by performing a test of recoverability. This test of recoverability failed because the undiscounted cash flows were below the carrying value of the services reporting unit. Based on this result, the Company calculated the fair value of the services reporting unit with the assistance of a third-party valuation firm. The cash flow forecast prepared by the Company included assumptions for revenues, gross margins, operating expenses, and the fair value included an assumption for the discount rate. The fair value of the services reporting unit was calculated at \$4.7 million below its carrying value. The Company allocated the shortfall to the long-lived assets of the services reporting unit to derive new fair values of the individual long-lived assets. The Company compared these adjusted fair values of the individual long-lived assets with the individually calculated or determined fair values of each long-lived asset. Based on this analysis, the Company recorded 100% of the shortfall to its customer relationships as an impairment charge. The Company is amortizing the remaining balance of the customer relationships for the services reporting

unit over its remaining useful life.

The assigned lives and weighted average amortization periods by intangible asset category is summarized below:

Intangible Assets	Assigned Life	Weighted Average Amortization Period
Customer contracts and relationships	4 to 6 years	5.0
Patents and technology	3 to 6 years	5.1
Trademarks and trade names	3 to 8 years	5.5
Other	1 to 6 years	3.4

The Company's scheduled amortization expense for 2016 and the next four years is as follows:

Fiscal Year	Amount
2016	\$ 2,318
2017	\$ 1,497
2018	\$ 1,419
2019	\$ 1,221
2020	\$ 199

## 6. Balance Sheet Information

### Accounts Receivable and Allowance for Doubtful Accounts

Accounts receivable are recorded at invoiced amount with standard net terms that range between 30 and 60 days. The Company extends credit to its customers based on an evaluation of a customer's financial condition and collateral is generally not required. The Company maintains an allowance for doubtful accounts for estimated uncollectible accounts receivable. The allowance is based on the Company's assessment of known delinquent accounts, historical experience, and other currently available evidence of the collectability and the aging of accounts receivable. The Company's allowance for doubtful accounts was \$0.3 million each at September 30, 2016 and at December 31, 2015. The provision for doubtful accounts is included in sales and marketing expense in the condensed consolidated statements of operations.

### Inventories

Inventories are stated at the lower of cost or market and include material, labor and overhead costs using the first-in, first-out ("FIFO") method of costing. Inventories as of September 30, 2016 and December 31, 2015 were composed of raw materials, sub-assemblies, finished goods and work-in-process. The Company had consigned inventory with customers of \$0.5 million and \$0.7 million at September 30, 2016 and December 31, 2015, respectively. The Company records allowances to reduce the value of inventory to the lower of cost or market, including allowances for excess and obsolete inventory. Reserves for excess inventory are calculated based on our estimate of inventory in excess of normal and planned usage. Obsolete reserves are based on our identification of inventory where carrying value is above net realizable value. The allowance for inventory losses was \$2.8 million at September 30, 2016 and \$2.2 million at December 31, 2015.

Inventories consisted of the following:

	September 30, 2016	December 31, 2015
Raw materials	\$ 8,903	\$ 11,012
Work in process	1,097	917
Finished goods	4,705	5,667
Inventories, net	\$ 14,705	\$ 17,596

#### Prepaid and Other Current Assets

Prepaid assets are stated at cost and are amortized over the useful lives (up to one year) of the assets.

#### Property and Equipment

Property and equipment are stated at cost and are depreciated using the straight-line method over the estimated useful lives of the assets. The Company depreciates computer equipment over three to five years, office equipment, manufacturing and test equipment, and motor vehicles over five years, furniture and fixtures over seven years, and buildings over 30 years. Leasehold improvements are amortized over the shorter of the corresponding lease term or useful life. Depreciation expense and gains and losses on the disposal of property and equipment are included in cost of sales and operating expenses in the condensed consolidated statements of operations. Maintenance and repairs are expensed as incurred.



Property and equipment consisted of the following:

	September 30, 2016	December 31, 2015
Building	\$ 6,341	\$ 6,227
Computers and office equipment	11,645	10,931
Manufacturing and test equipment	13,041	12,826
Furniture and fixtures	1,240	1,273
Leasehold improvements	1,228	1,001
Motor vehicles	19	42
Total property and equipment	33,514	32,300
Less: Accumulated depreciation and amortization	(22,161 )	(20,231 )
Land	1,770	1,770
Property and equipment, net	\$ 13,123	\$ 13,839

Depreciation and amortization expense was approximately \$0.8 million for the three months ended September 30, 2016 and 2015, respectively, and approximately \$2.4 million and \$2.3 million for the nine months ended September 30, 2016 and 2015, respectively. Amortization for capital leases is included in depreciation and amortization expense. See Note 10 for information related to capital leases.

#### Liabilities

Accrued liabilities consisted of the following:

	September 30, 2016	December 31, 2015
Inventory receipts	\$ 1,379	\$ 1,628
Payroll, bonuses, and other employee benefits	1,293	1,179
Paid time off	1,199	1,271
Income and sales taxes	443	381
Warranties	319	348
Restructuring	186	237
Professional fees and contractors	167	305
Employee stock purchase plan	120	280
Real estate taxes	114	161
Deferred revenues	76	65
Other	246	335
Total	\$ 5,542	\$ 6,190

Long-term liabilities consist of the following:

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	September 30, 2016	December 31, 2015
Long-term obligations under capital leases	\$ 174	\$ 107
Deferred rent	171	250
Restructuring	93	0
Deferred revenues	9	31
Total	\$ 447	\$ 388

## 7. Acquisitions

Business combinations are accounted for using the acquisition method of accounting. In general, the acquisition method requires acquisition-date fair value measurement of identifiable assets acquired, liabilities assumed, and non-controlling interests in the acquiree. The measurement requirements result in the recognition of the full amount of acquisition-date goodwill, which includes amounts attributable to non-controlling interests. Neither the direct costs incurred to effect a business combination nor the costs the acquirer expects to incur under a plan to restructure an acquired business may be included as part of the business combination

accounting. As a result, those costs are charged to expense when incurred, except for debt or equity issuance costs, which are accounted for in accordance with other generally accepted accounting principles.

#### Acquisition of Nexgen Wireless, Inc.

On February 27, 2015, the Company acquired substantially all of the assets of, and assumed certain specified liabilities of, Nexgen Wireless, Inc., an Illinois corporation (“Nexgen”), pursuant to an Asset Purchase Agreement dated as of February 27, 2015 (the “Nexgen APA”) among PCTEL, Inc., Nexgen, Bhumika Thakkar 2012 Irrevocable Trust Number One, Bhumika Thakkar 2012 Irrevocable Trust Number Two, and Jigar Thakkar (collectively, such trusts and Mr. Thakkar are the “Nexgen Shareholders”), and Bhumika Thakkar (collectively with Nexgen and the Nexgen Shareholders, the “Nexgen Parties”).

Nexgen provided a network analysis tool portfolio and engineering services. Nexgen’s software product portfolio translates real-time network performance data into engineering actions to optimize operator performance and supports crowd-based, cloud-based data analysis to enhance network performance. The business provides performance engineering, specialized staffing, and trend analysis for carriers, infrastructure vendors, and neutral hosts for 2G, 3G, 4G, and LTE networks.

The purchase consideration for the Nexgen business was \$21.4 million, consisting of \$18.25 million in cash paid at closing, \$2.25 million held in escrow, an estimated \$0.8 million excess working capital true-up to be paid in cash, and a contingency payment that was provisionally calculated with a fair value of \$0.1 million. The contingent payment was dependent on the achievement of revenue-based goals pertaining to the acquired business for the period commencing on March 1, 2015 and ending on April 30, 2016. The purchase consideration paid in cash was provided from the Company’s existing cash. The Company incurred transaction costs of \$0.8 million for the acquisition of Nexgen primarily related to investment banking, accounting, legal, and due diligence consulting services.

The assets acquired from Nexgen consisted primarily of customer relationships, intellectual property (including trade names), working capital (accounts receivable, work in process, accounts payable and accrued liabilities), and fixed assets. The Nexgen Parties are bound by non-competition covenants under the Nexgen APA, which generally expire on February 27, 2019. The Company calculated the fair value of the customer relationships, trade names, and non-compete agreement assets acquired by using the present value of future discounted cash flows. For the new technology, the Company used the replacement cost method for its valuation. The intangible assets recorded have a weighted average amortization period of 5.0 years.

On April 7, 2015, Samsung Electronics America, Inc., as successor in interest to Samsung Telecommunications America, LLC (“Samsung”), provided Nexgen and the Company with a final notice of Samsung’s election to terminate, effective April 30, 2015, the Contractor Services Agreement, dated May 2, 2012 (the “CSA”), by and between Samsung and Nexgen. On May 5, 2015, the Company and the Nexgen Parties entered into an Amendment to the Asset Purchase Agreement (the “Nexgen APA Amendment”) with the following principal terms: (a) Nexgen agreed to transfer to the Company previously excluded accounts receivable with an aggregate value of \$0.8 million; (b) the aggregate amount potentially payable to the Nexgen Parties as contingent consideration was reduced from \$2.0 million to \$1.0 million; (c) the Company waived its right to seek additional indemnification from the Nexgen Parties for matters specified therein; (d) the parties directed that \$2.25 million in escrowed funds potentially payable to the Nexgen Parties pursuant to the Nexgen APA be released to the Company; (e) Mr. Thakkar relinquished a portion of the equity awards previously granted to him; and (f) the Company released various potential claims against Nexgen and the Nexgen Parties with respect to the termination of the CSA and related matters. The measurement period for the revised contingent consideration amount commenced on January 1, 2016 and ends on December 31, 2016 and is dependent on software revenue-based goals pertaining to the acquired business. As of September 30, 2016 and December 31, 2015, respectively, the Company estimated that the contingent liability would be \$0.



The amendment terms were accounted for consistent with accounting for legal settlements, as there is not a clear and direct link between the settlement and the acquisition price. During June 2015, the Company received the cash from the escrow fund and the previously excluded accounts receivable. These amounts are recorded in Other Income, net in the condensed consolidated statements of operations. Approximately 78% of Nexgen's revenue was related to the U.S. Sprint cellular network, contracted either with Samsung or Sprint directly. During due diligence, the Company modeled a likely range of future revenue and cash flow based on the high degree of customer concentration risk. While the terminated CSA represented a material portion of that revenue, the resulting total future revenue and cash flow remained within the lower range of the forecast model. The Company utilized the lower end of the forecast range in evaluating the fair value of the acquired assets. The purchase accounting related to the valuation of certain tangible and intangible assets was complete as of December 31, 2015. The valuation yielded goodwill of \$3.3 million, of which \$1.5 million was related to the assembled workforce. The goodwill is deductible for income tax purposes. The following is the allocation of the purchase price for the assets from Nexgen at the date of the acquisition as of December 31, 2015:

Tangible assets:	
Accounts receivable	\$5,358
Prepaid and other assets	49
Deferred cost of sales	24
Fixed assets	43
Total tangible assets	5,474
Intangible assets:	
Customer relationships	8,117
Trade names	972
Technology	3,332
Backlog	162
Non-compete	583
Goodwill	3,332
Total intangible assets	16,498
Total assets	21,972
Accounts payable	200
Accrued liabilities	341
Total liabilities	541
Net assets acquired	\$21,431

A reconciliation of the assets acquired with the cash paid at closing is as follows:

Net assets acquired	\$21,431
Due Nexgen - contingent liability	(91 )
Due Nexgen - working capital adjustment	(840 )
Cash paid at closing	\$20,500

The Company did not have any material relationship with Mr. Thakkar and the other Nexgen Parties other than in respect of the Nexgen APA, the Nexgen APA Amendment and the transactions provided for therein. Effective November 2015, Mr. Thakkar resigned from his role as the Company's Vice President and Chief Technology Officer, Network Analytics.

The Company assumed Nexgen's existing lease for Nexgen's offices in Schaumburg, Illinois. Effective March 2016, the Company exercised its right of early termination of the Schaumburg lease. The lease termination was effective as of August 31, 2016. The Company moved the employees from the Schaumburg office to its Bloomingdale office prior to the termination date. The Nexgen services acquired in 2015 were integrated into the existing RF engineering services operation and the data analytics products were integrated in the RF scanner product line. The Company recognizes revenue for the engineering services under the completed performance method. For specialized staffing, the Company recognizes revenue as services are provided to the customer.

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The Company's results for the nine months ended September 30, 2015 include the operating results for the business acquired from Nexgen from the acquisition date. The following unaudited pro forma financial information gives effect to the acquisition of the Nexgen business as if the acquisition had taken place on January 1, 2015. The pro forma financial information for Nexgen was derived from the historical accounting records of Nexgen.

	(unaudited) Nine Months Ended September 30, 2015
REVENUES	\$ 83,435
NET INCOME	\$ (719 )
Net Income per Share	\$ (0.04 )

Since the Nexgen acquisition occurred in February 2015, pro forma information is presented for the nine months ended September 30, 2015. The pro forma results include adjustments for intangible amortization of \$0.3 million for the three months ended March 31, 2015. The pro forma information is presented for illustrative purposes only and may not be indicative of the results that would have been obtained had the acquisition actually occurred on January 1, 2015, nor is it necessarily indicative of the Company's future consolidated results of operations or financial position.

#### 8. Stock-Based Compensation

The condensed consolidated statements of operations include \$0.9 million and \$3.2 million of stock compensation expense for the three and nine months ended September 30, 2016, respectively. Stock compensation expense for the three months ended September 30, 2016 consists of \$0.6 million for time-based restricted stock awards, \$0.3 million for stock bonuses related to the short-term incentive plan ("STIP"), \$13 for stock options and \$42 for the Employee Stock Purchase Plan ("ESPP"). Stock compensation expense for the nine months ended September 30, 2016 consists of \$2.1 million for time-based restricted stock awards, \$0.4 million for shares to directors, \$0.4 million for stock bonuses related to the STIP, \$0.1 million for stock options and \$0.1 million for the ESPP.

The condensed consolidated statements of operations include \$0.7 million and \$1.4 million of stock compensation expense for the three and nine months ended September 30, 2015, respectively. Stock compensation expense for the three months ended September 30, 2015 consists of \$0.5 million for time-based restricted stock awards, \$33 related to performance awards, \$57 for stock options, and \$55 for the ESPP. Stock compensation expense for the nine months ended September 30, 2015 consists of \$1.1 million for time-based restricted stock awards, \$0.3 million for shares to directors, \$0.4 million for stock options and \$0.2 million for the ESPP, offset by the expense reversal of \$0.5 million related to performance awards that are not expected to vest.

The Company did not capitalize any stock compensation expense during the three and nine months ended September 30, 2016 or 2015. Total stock-based compensation is reflected in the condensed consolidated statements of operations as follows:

Three Months	Nine Months Ended
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	Ended			
	September		September 30	
	2016	2015	2016	2015
Cost of revenues	\$61	\$115	\$325	\$244
Research and development	183	99	525	244
Sales and marketing	158	230	486	370
General and administrative	542	206	1,851	534
Total	\$944	\$650	\$3,187	\$1,392

Restricted Stock – Service Based

The Company grants restricted shares as employee incentives. When service-based restricted stock is granted to employees, the Company records deferred stock compensation within additional paid in capital, representing the fair value of the common stock on the date the restricted shares are granted. The Company records stock compensation expense on a straight-line basis over the vesting period of the applicable service-based restricted shares. These grants vest over various periods, but typically vest over four years.



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The following table summarizes service-based restricted stock activity for the nine months ended September 30, 2016:

	Shares	Weighted Average Grant Date Fair Value
Unvested Restricted Stock Awards - December 31, 2015	1,050,172	\$ 6.11
Shares awarded	452,300	5.61
Shares vested	(204,398 )	6.61
Shares cancelled	(134,726 )	6.17
Unvested Restricted Stock Awards - September 30, 2016	1,163,348	\$ 5.83

The intrinsic value of service-based restricted shares that vested during the three months ended September 30, 2016, and 2015, was \$0.6 million and \$57, respectively. The intrinsic value of service-based restricted shares that vested during the nine months ended September 30, 2016, and 2015, was \$1.0 million and \$1.1 million, respectively.

At September 30, 2016, total unrecognized compensation expense related to restricted stock was approximately \$3.7 million, net of forfeitures to be recognized through 2020 over a weighted average period of 1.8 years.

#### Restricted Stock Units – Service Based

The Company grants restricted stock units as employee incentives. Restricted stock units are primarily granted to foreign employees for long-term incentive purposes. Employee restricted stock units are service-based awards and are amortized over the vesting period. At the vesting date, these units are converted to shares of common stock. The Company records expense on a straight-line basis for restricted stock units.

The following table summarizes the restricted stock unit activity during the nine months ended September 30, 2016:

	Units	Weighted Average Grant Date Fair Value
Unvested Restricted Stock Units - December 31, 2015	22,725	\$ 5.65
Units awarded	15,000	5.61
Units vested	(1,337 )	7.25
Unvested Restricted Stock Units - September 30, 2016	36,388	\$ 5.57

The intrinsic value of service-based restricted stock units that vested and were issued as shares during the nine months ended September 30, 2016 was \$7. No units vested during the three months ended September 30, 2016. The intrinsic

value of service-based restricted stock units that vested and issued as shares during the nine months ended September 30, 2015 was \$20.

As of September 30, 2016, the unrecognized compensation expense related to the unvested portion of the Company's restricted stock units was approximately \$0.1 million, to be recognized through 2020 over a weighted average period of 1.3 years.

#### Stock Options

The Company grants stock options to purchase common stock as long-term incentives. The Company issues stock options with an exercise price no less than the fair value of the Company's stock on the grant date. The Company grants new stock options with a seven-year life that contain installment vesting over a period of four years, 25% after one year, and monthly thereafter. Stock options may be exercised at any time prior to their expiration date or within ninety days of termination of employment, or such shorter time as may be provided in the related stock option agreement.

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A summary of the Company's stock option activity for the nine months ended September 30, 2016 is as follows:

	Options Outstanding	Weighted Average Exercise Price
Outstanding at December 31, 2015	1,220,442	\$ 7.72
Granted	24,500	4.95
Expired or Cancelled	(294,229 )	8.84
Forfeited	(63,471 )	7.24
Outstanding at September 30, 2016	887,242	\$ 7.31
Exercisable at September 30, 2016	662,089	\$ 7.39

There were 24,500 options granted during the three months and nine months ended September 30, 2016. There were no exercises of stock options during the nine months ended September 30, 2016. During the nine months ended September 30, 2015, the Company received proceeds of \$0.3 million from the exercise of 35,134 options. The intrinsic value of these options exercised was \$34.

The range of exercise prices for options outstanding and exercisable at September 30, 2016, was \$4.50 to \$11.00. The following table summarizes information about stock options outstanding under all stock option plans:

Range of Exercise Prices	Options Outstanding			Options Exercisable		
	Number Outstanding	Weighted Average Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted Average Exercise Price	
\$4.50 -- \$6.00	36,379	6.46	\$ 5.28	1,755	\$ 5.90	
6.01 -- 6.50	16,267	2.54	6.23	16,267	6.23	
6.51 -- 7.00	37,522	1.65	6.85	36,251	6.86	
7.01 -- 7.50	641,360	3.43	7.17	499,454	7.17	
7.51 -- 8.00	18,000	4.04	7.80	12,352	7.81	
8.01 -- 8.50	75,232	4.73	8.12	35,415	8.14	
8.51 -- 9.00	6,750	2.83	8.76	5,301	8.77	
9.01 -- 9.50	38,832	0.38	9.29	38,832	9.29	
9.51 -- 10.00	15,500	1.97	9.63	15,062	9.63	
10.01 -- 11.00	1,400	1.84	10.46	1,400	10.46	
\$4.50 -- \$11.00	887,242	3.42	\$ 7.31	662,089	\$ 7.39	

The weighted average contractual life and intrinsic value at September 30, 2016, was the following:

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	Weighted	
	Average	
	Contractual	Intrinsic
	Life (years)	Value
Options Outstanding	3.42	\$ 8
Options Exercisable	3.09	\$ 0

The intrinsic value is based on the share price of \$5.29 at September 30, 2016.

The Company calculated the fair value of each option grant on the date of grant using the Black-Scholes option-pricing model using the following assumptions at September 30<sup>th</sup>:

	September	
	30,	
	2016	
Dividend yield	3.8	%
Risk-free interest rate	0.8	%
Expected volatility	33	%
Expected life (in years)	4.9	

The fair value of each unvested option was estimated on the date of grant using the Black-Scholes option valuation model. The Black-Scholes option valuation model was developed for use in estimating the fair value of traded options, which have no vesting restrictions and are fully transferable. In addition, option valuation models require the input of highly subjective assumptions including the expected stock price volatility and expected option life. Because the Company's employee stock options have characteristics significantly different from those of traded options, and because changes in the subjective input assumptions can materially affect the fair value estimate, the existing models may not necessarily provide a reliable single measure of the fair value of the employee stock options.

The dividend yield rate was calculated by dividing the Company's annual dividend by the closing price on the grant date. The risk-free interest rate was based on the U.S. Treasury yields with remaining term that approximates the expected life of the options granted. The Company calculates the volatility based on a five-year historical period of the Company's stock price. The Company incorporates a forfeiture rate based on historical data in the expense calculation. The expected life used for options granted is based on historical data of employee exercise performance. The Company records expense based on the grading vesting method.

As of September 30, 2016, the unrecognized compensation expense related to the unvested portion of the Company's stock options was approximately \$0.1 million, net of estimated forfeitures to be recognized through 2020 over a weighted average period of 1.0 year.

#### Performance-based Equity Awards

The Company issued performance share awards to executives in 2014 and 2015. The fair value of these performance share awards was calculated based on the stock price on the date of grant.

In June 2015, the Company's Board of Directors approved the 2015 Long-Term Incentive Plan ("2015 LTIP"). Under the 2015 LTIP, shares can be earned by certain executive employees based upon achievement of revenue goals over a four-year period with a penalty if certain earnings levels are not maintained. The four-year period was divided into two interim periods (each an "Interim Period"), the first of which will end on December 31, 2016, and the second of which will end on December 31, 2018. At the award date, the number of shares that could be earned collectively by all participants at threshold and target were 212,000 and 424,000, respectively. Stock compensation expense is amortized over the performance period for these awards based on estimated achievement of the goals. No expense has been recorded during the year ended December 31, 2015 or during the nine months ended September 30, 2016 for the 2015 LTIP because the Company does not believe it will meet the revenue threshold for the year ended December 31, 2016.

In March 2014, the Company's Board of Directors approved the 2014 Long-Term Incentive Plan ("2014 LTIP"). Under the 2014 LTIP, shares can be earned by certain executive employees based upon achievement of revenue goals over a four-year period with a penalty if certain profit levels are not maintained. The four-year period was divided into two interim periods (each an "Interim Period"), the first of which will end on December 31, 2015, and the second of which will end on December 31, 2017. The number of shares that could be earned collectively by all participants at threshold and target were 190,000 and 380,000, respectively. Stock compensation expense is amortized over the performance period for these awards based on estimated achievement of the goals. No expense was recorded for the first Interim Period of the 2014 LTIP because the Company did not meet the revenue threshold for the year ended 2015. Unvested awards of 162,000 related to the Interim Period ended December 31, 2015 were cancelled in December 2015.

The Company had 455,000 and 555,000 unvested performance awards at September 30, 2016 and December 31, 2015, respectively. There were forfeitures of 100,000 awards during the nine months ended September 30, 2016 due to employee attrition.

Director shares

In June 2016, the Company issued 85,374 shares to directors that immediately vested. The intrinsic value of these shares was \$0.4 million based on the share price of \$4.65 on the award date. In June 2015, the Company issued 37,379 shares to directors that immediately vested. The intrinsic value of these shares was \$0.3 million based on the share price of \$7.41 on the award date.

Short-term incentive plan

For the Company's 2016 STIP, executives will be paid in shares of the Company's stock. Any shares earned under the STIP will be awarded in the first quarter of 2017 based on the performance period ending December 31, 2016. During the nine months ended September 30, 2016, the Company recorded the expense based on an estimate of the achievement of the award on a pro-rata basis over the measurement period.

## Employee Stock Purchase Plan (“ESPP”)

The ESPP enables eligible employees to purchase common stock at the lower of 85% of the fair market value of the common stock on the first or last day of each offering period. Each offering period is approximately six months. The Company received proceeds of \$0.3 million from the issuance of 67,533 shares under the ESPP in August 2016 and received proceeds of \$0.4 million from the issuance of 76,314 shares under the ESPP in August 2015. The Company received proceeds of \$0.4 million from the issuance of 78,415 shares under the ESPP in February 2016 and received proceeds of \$0.4 million from the issuance of 57,293 shares under the ESPP in February 2015.

Based on the 15% discount and the fair value of the option feature of this plan, this plan is considered compensatory. Compensation expense is calculated using the fair value of the employees’ purchase rights under the Black-Scholes model.

The Company calculated the fair value of each employee stock purchase grant on the date of grant using the Black-Scholes option-pricing model using the following assumptions:

	September 30, 2016 2015	
Dividend yield	3.8%	3.4 %
Risk-free interest rate	0.8%	0.6 %
Expected volatility	33 %	34 %
Expected life (in years)	0.5	0.5

The dividend yield rate was calculated by dividing the Company’s annual dividend by the closing price on the grant date. The risk-free interest rate was based on the U.S. Treasury yields with a remaining term that approximates the expected life of the options granted. The dividend yield rate is calculated by dividing the Company’s annual dividend by the closing price on the grant date. The Company calculates the volatility based on a five-year historical period of the Company’s stock price. The expected life used is based on the offering period.

## Employee Withholding Taxes on Stock Awards

For ease in administering the issuance of stock awards, the Company holds back shares of vested restricted stock awards and short-term incentive plan stock awards for the value of the statutory withholding taxes. For each individual receiving a share award, the Company redeems the shares it computes as the value for the withholding tax and remits this amount to the appropriate tax authority. For withholding taxes related to stock awards, the Company paid \$0.4 million during the nine months ended September 30, 2016 and 2015, respectively.

## Stock Repurchases

The Company repurchased 783,212 shares at an average price of \$5.23 during the first quarter 2016. No shares were repurchased during the three months ended September 30, 2016. As of the first quarter 2016, the Company had no shares that could still be repurchased under previously approved programs. The Company repurchased 1,942,788 shares at an average price of \$6.22 during the year ended December 31, 2015. In total, the Company repurchased 2,726,000 shares under share repurchase program during the past twelve months.

## 9. Benefit Plans

### Employee Benefit Plans

The Company's 401(k) plan covers all of the U.S. employees beginning the first day of the month following the first month of their employment. Under this plan, employees may elect to contribute up to 15% of their current compensation to the 401(k) plan up to the statutorily prescribed annual limit. The Company matches employee contributions up to 4% and may also make discretionary contributions to the 401(k) plan. The Company also contributes to various retirement plans for foreign employees.

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The Company's contributions to retirement plans were as follows:

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
PCTEL, Inc. 401(k) Profit sharing Plan - US employees	\$ 168	\$ 195	\$ 509	\$ 575
Defined contribution plans - foreign employees	89	87	285	248
Total	\$ 257	\$ 282	\$ 794	\$ 823

## 10. Commitments and Contingencies

### Restructuring

During the nine months ended September 30, 2016, the Company incurred restructuring expenses of \$0.7 million consisting of \$0.3 million in employee severance and payroll related costs, \$0.3 million for lease terminations, and \$0.1 million related to fixed asset disposals. During the first quarter 2016, the Company reduced headcount in its RF Solutions segment related to services and SeeHawk analytics, and exited from its Colorado office in order to consolidate facility space.

The restructuring expense incurred for lease terminations include the remaining obligations under the lease, net of assumed proceeds for a sublease. As of September 30, 2016, the Colorado office has not been subleased. During the three months ended September 30, 2016, the Company increased its liability by \$0.1 million for the Colorado lease termination based on a revised sublease assumption.

Of the \$0.3 million restructuring liability at September 30, 2016, \$0.2 million was included in accrued liabilities and \$0.1 million was included in long-term liabilities in the consolidated balance sheets. The restructuring liability of \$0.2 million at December 31, 2015 was included in accrued liabilities in the consolidated balance sheets.

The following table summarizes the restructuring activity during the nine months ended September 30, 2016 and the status of the reserves at September 30, 2016.

	December 31, 2015	Restructuring Expenses	Cash Payments/ Adjustments	September 30, 2016
Severance and related employee benefits	\$ 237	\$ 254	\$ (422)	\$ 69
Lease terminations	0	328	(119)	209
Fixed assets	0	72	(72)	0
Total	\$ 237	\$ 654	\$ (613)	\$ 278

## Operating Leases

The Company has operating leases for facilities through 2020 and office equipment through 2019. The future minimum rental payments under these leases at September 30, 2016, are as follows:

Year	Amount
2016	\$ 245
2017	907
2018	887
2019	827
2020	308
Thereafter	28
Future minimum lease payments	\$ 3,202

The rent expense under leases was approximately \$0.2 million and \$0.3 million for the three months ended September 30, 2016, and 2015, respectively, and approximately \$0.7 million and \$0.8 million for the nine months ended September 30, 2016, and 2015, respectively.

In February 2016, the Company modified the lease agreement for the office of its engineering services business in Melbourne, Florida. Under the lease amendment, the Company reduced the lease space from 6,174 sq. ft. to 3,600 sq. ft. The expiration lease term remained the same at December 31, 2018. There were no additional fees related to this lease amendment.

To increase antenna manufacturing capacity at the Company's Tianjin, China facility, in October 2015 the Company entered into a new five-year lease for additional manufacturing space in consisting of 22,169 square feet which expanded the Company's footprint in Tianjin to 44,289 square feet. This lease expires October 2020. The total lease obligation pursuant to this lease was \$0.2 million.

In May 2015, the Company entered into a new five-year, five month lease for office space in Englewood, Colorado, consisting of 4,759 square feet of office space for the engineering services business. The lease expires on October 31, 2020; however, during the first quarter 2016, the Company vacated this facility and is marketing this property for sublease. Excluding any sublease payments, the remaining lease obligation pursuant to this lease was \$0.5 million at September 30, 2016.

Pursuant to the Asset Purchase Agreement dated February 27, 2015 with Nexgen, the Company assumed Nexgen's lease for office space in Schaumburg, Illinois consisting of 6,652 square feet. The total lease obligation pursuant to this lease assumption was \$0.3 million. The Schaumburg lease expires on October 31, 2018, but the lease contained a one-time option to elect an early termination of the lease on August 31, 2016. In March 2016, the Company exercised the early termination option and paid a fee of \$57. The Company exited this office space in August 2016 and has no further interest or obligations in the office space.

In June 2016, the Company entered into a new four-year lease for its Beijing Design Center, at the same location, consisting of 5,393 square feet. The total lease obligation pursuant to this lease agreement was \$0.4 million.

#### Capital Leases

The Company has capital leases for office and manufacturing equipment. The net book values for assets under capital leases were as follows:

	September 30, 2016	December 31, 2015
Cost	\$ 324	\$ 190
Accumulated Depreciation	(88 )	(48 )
Net Book Value	\$ 236	\$ 142

The following table presents future minimum lease payments under capital leases together with the present value of the net minimum lease payments due in each year:

Year	Amount
2016	\$ 19

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2017	77
2018	76
2019	60
2020	20
2021	8
Total minimum payments required:	260
Less amount representing interest:	18
Present value of net minimum lease payments:	\$ 242

Warranty Reserve and Sales Returns

The Company allows its major distributors and certain other customers to return unused product under specified terms and conditions. The Company accrues for product returns based on historical sales and return trends. The Company's allowance for product returns was \$0.1 million and \$0.2 million at September 30, 2016 and December 31, 2015, respectively, and is included within accounts receivable on the accompanying condensed consolidated balance sheet.

The Company offers repair and replacement warranties of up to five years for certain antenna products and scanning receiver products. The Company's warranty reserve is based on historical sales and costs of repair and replacement trends. The warranty reserve was \$0.3 million at September 30, 2016 and December 31, 2015, respectively, and is included in other accrued liabilities in the accompanying condensed consolidated balance sheets.

	Nine Months Ended September 30, 2016 2015	
Beginning balance	\$348	\$304
Provisions for warranties	57	93
Consumption of reserves	(86)	(16)
Ending balance	\$319	\$381

## 11. Income Taxes

The Company recorded an income tax benefit of \$0.3 million for the three months ended September 30, 2016 and income tax expense of \$4.2 million for the nine months ended September 30, 2016. The tax expense for the nine months ended September 30, 2016 includes \$7.6 million for an increase to the valuation allowance for the Company's U.S. deferred tax assets. Excluding the adjustment to the valuation allowance, the benefit recorded for the nine months ended September 30, 2016 differed from the statutory rate of 34% due to the combination of U.S. pretax losses and foreign pretax profits at lower tax rates and due to state taxes.

The Company recorded an income tax benefit of \$0.6 million and \$0.5 million for the three and nine months ended September 30, 2015, respectively. The tax benefit for the nine months ended September 30, 2015 differed from the statutory rate of 34% primarily because of state income taxes.

At September 30, 2016, the Company has deferred tax assets net of deferred tax liabilities of \$17.6 million, virtually all of which are related to the United States tax jurisdiction. The Company's valuation allowance against its deferred tax assets was \$8.3 million at September 30, 2016 and \$0.7 million at December 31, 2015. On a regular basis, the Company evaluates the recoverability of deferred tax assets and the need for a valuation allowance. Such evaluations involve the application of significant judgment. The Company considers multiple factors in its evaluation of the need for a valuation allowance. The Company's domestic deferred tax assets have a ratable reversal pattern over 15 years. The carry forward rules allow for up to a 20 year carry forward of net operating losses ("NOL") to future income that is available to realize the deferred tax assets. The combination of the deferred tax asset reversal pattern and carry forward period yields a 27.5 year average period over which future income can be utilized to realize the deferred tax assets.

During the quarter ended June 30, 2016, there were two significant changes in the deferred tax asset recoverability evidence pattern. The cumulative three year US book income turned to a loss. In addition, the Company experienced a significant shift in its Connected Solutions segment revenue to products that are designed, manufactured and sold through the Company's China subsidiary directly into China. This will cause a significant shift going forward in the Company's tax profitability from the United States to China. The Company believes this is the beginning of a long-term trend. In the third quarter, the Company completed a recapitalization of its China subsidiary to

accommodate the initial working capital growth required to support the shift and continues to anticipate permanently reinvesting future earnings and profits from its China subsidiary in China to support its future working capital needs there.

The Company re-forecasted its long term domestic profitability in light of the shift in business to China that is occurring. The analysis that the Company prepared to determine the valuation allowance required significant judgment and assumptions regarding future market conditions as well as forecasts for profits, taxable income, and taxable income by jurisdiction. The Company used a series of projections bound on the low side by what it would take for none of its deferred tax assets to be realized and on the high side by what it would take for all of the deferred tax assets to be realized. The Company assigned probabilities to each scenario and the result was a weighted average valuation allowance of \$7.6 million established at June 30, 2016. Due to the sensitivity of the analysis, changes to the assumptions in subsequent periods could have a material effect on the valuation allowance.

The Company's gross unrecognized tax benefit was \$0.8 million at September 30, 2016 and December 31, 2015.

The Company files a consolidated federal income tax return, income tax returns with various states, and foreign income tax returns in various foreign jurisdictions. The Company's U.S. federal and state tax returns remain subject to examination for 2012 and subsequent periods.

## 12. Segment, Customer and Geographic Information

PCTEL operates in two segments for reporting purposes. The Company's Connected Solutions segment includes its antenna and engineered site solutions. Its RF Solutions segment includes its scanning receivers and engineering services. Each of the segments has its own segment manager as well as its own engineering, sales and marketing, and operational general and administrative functions. All of the Company's accounting and finance, human resources, IT and legal functions are provided on a centralized basis through the corporate function. The Company manages its balance sheet and cash flows centrally at the corporate level, with the exception of inventory which is managed at the segment level. Each of the segment managers reports to and maintains regular contact with the chief operating decision maker to discuss operating activities, financial results, forecasts, or plans for the segment. The Company's chief operating decision maker uses operating profits and identified assets for Connected Solutions and RF Solutions segments to make operating decisions.

The following tables are the segment operating profits and cash flow information for the three and nine months ended September 30, 2016 and 2015, respectively, and the segment balance sheet information as of September 30, 2016 and December 31, 2015:

## Three Months Ended September 30, 2016

## ConnectedRF

## Solutions Solutions Corporate Total

REVENUES	\$17,136	\$ 7,609	\$ (58 )	\$24,687
GROSS PROFIT	5,771	3,179	(13 )	8,937
OPERATING INCOME (LOSS)	\$2,530	\$ (330 )	\$ (2,363 )	\$(163 )
Depreciation	\$484	\$ 330	\$ 0	\$814
Intangible amortization	\$39	\$ 378	\$ 0	\$417
Capital expenditures	\$288	\$ 41	\$ 5	\$334

## Nine Months Ended September 30, 2016

## ConnectedRF

## Solutions Solutions Corporate Total

REVENUES	\$47,616	\$ 22,552	\$ (164 )	\$70,004
GROSS PROFIT	\$15,035	\$ 10,197	\$ (7 )	\$25,225
OPERATING INCOME (LOSS)	\$5,625	\$ (6,227 )	\$ (7,644 )	\$(8,246 )
Depreciation	\$1,417	\$ 988	\$ 0	\$2,405
Intangible amortization	\$153	\$ 1,777	\$ 0	\$1,930
Capital expenditures	\$1,127	\$ 239	\$ 333	\$1,699

## As of September 30, 2016

## ConnectedRF

## Solutions Solutions Corporate Total

Accounts receivable	\$11,801	\$ 6,196	\$ 0	\$17,997
Inventories	\$12,371	\$ 2,334	\$ 0	\$14,705

Long-lived assets:				
Property and equipment, net	\$10,028	\$ 2,312	\$ 783	\$13,123
Goodwill	\$0	\$ 3,332	\$ 0	\$3,332
Intangible assets, net	\$272	\$ 4,452	\$ 0	\$4,724
Deferred tax assets, net	\$0	\$ 0	\$ 9,264	\$9,264
Other noncurrent assets	\$0	\$ 0	\$ 38	\$38



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Three Months Ended September 30, 2015  
ConnectedRF  
Solutions Solutions Corporate Total

REVENUES	\$17,450	\$9,115	\$ (39 )	\$26,526
GROSS PROFIT	\$4,729	\$3,727	\$7	\$8,463
OPERATING INCOME (LOSS)	\$1,160	\$(1,058)	\$(2,323)	\$(2,221)
Depreciation	\$428	\$289	\$64	\$781
Intangible amortization	\$195	\$930	\$0	\$1,125
Capital expenditures	\$135	\$151	\$0	\$286

Nine Months Ended September 30, 2015  
ConnectedRF  
Solutions Solutions Corporate Total

REVENUES	\$52,903	\$27,749	\$(175)	\$80,477
GROSS PROFIT	\$15,549	\$12,413	\$20	\$27,982
OPERATING INCOME (LOSS)	\$4,255	\$(181)	\$(8,056)	\$(3,982)
Depreciation	\$1,281	\$809	\$208	\$2,298
Intangible amortization	\$655	\$2,308	\$0	\$2,963
Capital expenditures	\$653	\$836	\$94	\$1,583

As of December 31, 2015  
ConnectedRF

	Solutions	Solutions	Corporate	Total
Accounts receivable	\$12,875	\$8,126	\$0	\$21,001
Inventories	\$15,507	\$2,089	\$0	\$17,596
Long-lived assets:				
Property and equipment, net	\$10,250	\$2,985	\$604	\$13,839
Goodwill	\$0	\$3,332	\$0	\$3,332
Intangible assets, net	\$425	\$10,953	\$0	\$11,378
Deferred tax assets, net	\$0	\$0	\$13,155	\$13,155
Other noncurrent assets	\$0	\$0	\$40	\$40

The Company's revenues attributable to products and services are as follows:

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
	2016	2015	2016	2015
Revenues:				
Products	\$20,892	\$22,393	\$61,383	\$68,583
Services	3,795	4,133	8,621	11,894

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Total revenues \$24,687 \$26,526 \$70,004 \$80,477

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
Cost of revenues:				
Products	\$12,637	\$14,214	\$36,735	\$41,742
Services	3,113	3,849	8,044	10,753
Total cost of revenues	\$15,750	\$18,063	\$44,779	\$52,495

The Company's revenue to customers by geographic location, as a percent of total revenues, is as follows:

Region	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2015	
	2016	2015	2016	2015
Asia Pacific	21 %	9 %	19 %	9 %
Europe, Middle East, & Africa	7 %	7 %	8 %	9 %
Other Americas	6 %	7 %	6 %	6 %
Total Foreign sales	34 %	23 %	33 %	24 %

There was one customer that accounted for greater than 10% of revenues for the three months ended September 30, 2016. There were no customers that accounted for greater than 10% of revenues for the three months ended September 30, 2015 or for the nine months ended September 30, 2016 and 2015, respectively.

### 13. Related Parties

The Company leased its Pryor, Oklahoma facility from American Tradition Custom Steel LLC, of which Aaron Jarvis is a member. Mr. Jarvis was the operations manager for the Company's mobile tower business. Mr. Jarvis' employment with the Company ended in September 2015, and the lease terminated on October 31, 2015. Effective October 2015, the Company entered into a contract with Mr. Jarvis pursuant to which he provided warranty support for the mobile towers product line. The warranty support was complete as of September 30, 2016.

### 14. Subsequent Events

The Company evaluates subsequent events occurring between the most recent balance sheet date and the date that the financial statements are available to be issued in order to determine whether the subsequent events are to be recorded and/or disclosed in the Company's financial statements and footnotes. The financial statements are considered to be available to be issued at the time that they are filed with the SEC. There were no other subsequent events or transactions that required recognition or disclosure in the consolidated financial statements.

Item 2: Management's Discussion and Analysis of Financial Condition and Results of Operations

The following information should be read in conjunction with the condensed consolidated financial statements and the notes thereto included in Item 1 of this Quarterly Report on Form 10-Q and in conjunction with the consolidated financial statements for the year ended December 31, 2015 contained in our Annual Report on Form 10-K filed on March 15, 2016. Except for historical information, the following discussion contains forward looking statements that involve risks and uncertainties, including statements regarding our anticipated revenues, profits, costs and expenses and revenue mix. These forward-looking statements include, among others, those statements including the words “may,” “will,” “plans,” “seeks,” “expects,” “anticipates,” “intends,” “believes” and words of similar meaning. Such statements constitute “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. No undue reliance should be placed on these forward-looking statements. Our actual results could differ materially from those projected in these forward-looking statements.

Our third quarter 2016 revenues decreased by \$1.8 million, or approximately 7% compared to the same period in 2015, due to lower revenues from both the Connected Solutions and RF Solutions segments. We recorded an operating loss of \$0.2 million for the three months ended September 30, 2016 compared to an operating loss of \$2.2 million in the same period in 2015, and an operating loss of \$8.2 million for the nine months ended September 30, 2016 compared to an operating loss of \$4.0 million in the same period in 2015. We recorded net income of \$0.2 million for the three months ended September 30, 2016 compared to net loss of \$1.1 million for the three months ended September 30, 2015, and a net loss of \$12.4 million for the nine months ended September 30, 2016 compared to a net loss of \$0.8 million for the same period in 2015.

The net loss for the nine months ended September 30, 2016 includes \$7.6 million for income tax expense related to a partial valuation allowance of our U.S. deferred tax assets and \$4.7 million for impairment expense related to customer relationships within RF Solutions. The net income for the three and nine months ended September 30, 2015 included other income of \$0.5 million and \$2.8 million, respectively. For the nine months ended September 30, 2015, settlement income of \$2.7 million related to the Nexgen APA Amendment and consisted of \$2.25 million for the release of the Nexgen escrow fund and \$0.8 million from the collection of previously excluded accounts receivables, offset by \$0.4 million of expense recognized for the liability of the revised Nexgen earnout.

#### Introduction

PCTEL delivers Performance Critical Telecom solutions. RF Solutions develops and provides test equipment, software and engineering services for wireless networks. The industry relies upon PCTEL to benchmark network performance, analyze trends, and optimize wireless networks. Connected Solutions designs and delivers performance critical antennas and site solutions for wireless networks globally. Our antennas support evolving wireless standards for cellular, private, and broadband networks. PCTEL antennas and site solutions support networks worldwide, including SCADA for oil, gas and utilities, fleet management, industrial operations, health care, small cell and network timing deployment, defense, public safety, education, and broadband access.

Revenue growth for antenna products and site solutions is driven by emerging wireless applications in the following markets: public safety, military, and government applications; SCADA, health care, energy, smart grid and agricultural applications; indoor wireless, wireless backhaul, and cellular applications. Revenue growth for scanning receiver products, interference management products, and optimization services is driven by the deployment of new wireless technology and the need for wireless networks to be tuned and reconfigured on a regular basis.

We have an intellectual property portfolio related to antennas, the mounting of antennas, and scanning receivers. These patents are being held for defensive purposes and are not part of an active licensing program.

PCTEL operates in two segments for reporting purposes. Our Connected Solutions segment includes our antenna and engineered site solutions and our RF Solutions segment includes our scanning receivers and related RF engineering

services. Each segment has its own segment manager as well as its own engineering, sales and marketing, and operational general and administrative functions. All of our accounting and finance, human resources, IT and legal functions are provided on a centralized basis through the corporate function.

On February 27, 2015, PCTEL acquired substantially all of the assets of, and assumed certain specified liabilities of, Nexgen Wireless, Inc. (“Nexgen”) pursuant to an Asset Purchase Agreement dated as of February 27, 2015 (the “Nexgen APA”). Nexgen provided a network analysis tool portfolio now known as SeeHawk Analytics, and engineering services. The RF engineering services acquired in 2015 were integrated into the existing RF engineering services operation and the data analytics products were integrated in the RF scanning receiver product line. Nexgen’s software product portfolio translates real-time network performance data into engineering actions to optimize operator performance and supports crowd-based, cloud-based data analysis to enhance network performance. Nexgen provides performance engineering, specialized staffing, and trend analysis for carriers, infrastructure vendors, and neutral hosts for 2G, 3G, 4G, and LTE networks. Refer to Note 7 of the financial statements for more information on the Nexgen acquisition.

## Results of Operations

Three and Nine Months Ended September 30, 2016 and 2015

(in thousands)

## Revenues by Segment

	Three Months Ended September 30,				
	2016	2015	\$ Change	% Change	
Connected Solutions	\$17,136	\$17,450	\$(314 )	-1.8	%
RF Solutions	7,609	9,115	(1,506 )	-16.5	%
Corporate	(58 )	(39 )	(19 )	not meaningful	
Total	\$24,687	\$26,526	\$(1,839 )	-6.9	%

	Nine Months Ended September 30,				
	2016	2015	\$ Change	% Change	
Connected Solutions	\$47,616	\$52,903	\$(5,287 )	-10.0	%
RF Solutions	22,552	27,749	(5,197 )	-18.7	%
Corporate	(164 )	(175 )	11	not meaningful	
Total	\$70,004	\$80,477	\$(10,473)	-13.0	%

Revenues decreased 6.9% for the three months ended September 30, 2016 compared to the same period in 2015. Connected Solutions revenues decreased 1.8% for the three months ended September 30, 2016 compared to same period in 2015 primarily because the third quarter 2015 included revenues of \$0.7 million for mobile towers. We exited from the mobile tower business in the third quarter 2015. Connected Solutions revenues decreased 10.0% for the nine months ended September 30, 2016 compared to same period in 2015 due to lower kitting revenues in the U.S. cellular market and due to the exit from the mobile tower business. RF Solutions revenue decreased 16.5% and 18.7% for the three and nine months ended September 30, 2016, respectively compared to same periods in 2015 due to lower revenues from products and services. For the three months ended September 30, 2016 compared to the same period in the prior year, revenues for in-building services increased, but revenues declined for Subject Matter Expert services and for products. Product revenues were negatively impacted by the acquisition of one of our large OEM customers for scanning receivers. For the nine months ended September 30, 2016 compared to the same period in 2015, revenues were lower for services due a downturn in North American cellular carrier spending and slower DAS deployment.

## Gross Profit by Segment

	Three Months Ended September 30,				
	2016	% of Revenues	2015	% of Revenues	
Connected Solutions	\$5,771	33.7	% \$4,729	27.1	%

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RF Solutions	3,179	41.8	%	3,727	40.9	%
Corporate	(13 )	not meaningful		7	not meaningful	
Total	\$8,937	36.2	%	\$8,463	31.9	%

Nine Months Ended September 30,

	2016	% of Revenues		2015	% of Revenues	
Connected Solutions	\$15,035	31.6	%	\$15,549	29.4	%
RF Solutions	10,197	45.2	%	12,413	44.7	%
Corporate	(7 )	not meaningful		20	not meaningful	
Total	\$25,225	36.0	%	\$27,982	34.8	%

The gross profit percentage of 36.2% for the three months ended September 30, 2016 was 4.3% higher than the same period in 2015 due to higher gross profit percentages in both Connected Solutions and RF Solutions. The gross profit percentage for Connected Solutions increased 6.6% during the three months ended September 30, 2016 compared to the same period in 2015 due to the favorable impact of manufacturing cost reductions implemented in the fourth quarter 2015 and favorable product mix with a higher proportion of antennas, lower proportion of kitting, and no mobile towers. The gross margin percentage increased 2.2% for the nine months ended September 30, 2016 compared to the same period in 2015 due to the favorable impact of the manufacturing cost reductions and favorable product mix offset by higher expense for reserves for excess and obsolete inventories. The gross profit percentage for RF Solutions increased 0.9% and 0.5% for the three and nine months ended September 30, 2016 compared to the same period in 2015. The increase in the RF Solutions gross margin percentage for the three months ended September 30, 2016 was higher

due to better gross margins for services. The increase in the RF Solutions gross margin percentage for the nine months ended September 30, 2016 was due to better gross margins for services and due to a higher mix of product revenue with its higher margins compared to services. During the nine months ended September 30, 2016, the revenue mix consisted of approximately 62% products compared to 57% products for the same period in 2015.

### Consolidated Operating Expenses

	Three Months Ended		Three Months Ended		
	September 30, 2016	Change	September 30, 2015	% of Revenues	
				2016	2015
Research and development	\$ 2,451	\$(412 )	\$ 2,863	9.9 %	10.8%
Sales and marketing	3,396	(207 )	3,603	13.8%	13.6%
General and administrative	2,890	43	2,847	11.7%	10.7%
Amortization of intangible assets	250	(708 )	958	1.0 %	3.6 %
Restructuring expenses	113	(300 )	413	0.5 %	1.6 %
	\$ 9,100	\$(1,584)	\$ 10,684	36.9%	40.3%

  

	Nine		Nine		
	Months Ended September 30, 2016	Change	Months Ended September 30, 2015	% of Revenues	
				2016	2015
Research and development	\$ 7,581	\$(925 )	\$ 8,506	10.8%	10.6%
Sales and marketing	9,925	(633 )	10,558	14.2%	13.1%
General and administrative	9,157	(356 )	9,513	13.1%	11.8%
Amortization of intangible assets	1,430	(1,105)	2,535	2.0 %	3.1 %
Impairment of intangible assets	4,724	4,724	0	6.7 %	0.0 %
Restructuring charges	654	(198 )	852	0.9 %	1.1 %
	\$ 33,471	\$1,507	\$ 31,964	47.7%	39.7%

### Research and Development

Research and development expenses decreased approximately \$0.4 million and \$0.9 million for the three and nine months ended September 30, 2016 compared to the same periods in 2015. For the three months ended September 30, 2016 compared to the same period in 2015, cash-based research and development expenses declined by \$0.3 million for RF Solutions and \$0.2 million for Connected Solutions, offset by \$0.1 million of higher stock compensation expenses. For the nine months ended September 30, 2016 compared to the same period in 2015, cash-based research and development expenses decreased by \$0.8 million for RF Solutions and \$0.4 million for Connected Solutions, offsetting \$0.3 million of higher stock compensation expenses. Research and development expenses for RF Solutions are lower in 2016 due to headcount reductions from the third quarter 2015 for scanning receivers and from the first quarter 2016 for SeeHawk analytics. Headcount was reduced after the completion of development projects. Research and development expenses for Connected Solutions are lower due in 2016 to headcount reductions from 2015.

### Sales and Marketing



Sales and marketing expenses include costs associated with the sales and marketing employees, sales agents, product line management, and trade show expenses.

Sales and marketing expenses decreased by approximately \$0.2 million for the three months ended September 30, 2016 compared to the same period in 2015 and declined by \$0.6 million for the nine months ended September 30, 2016 comp