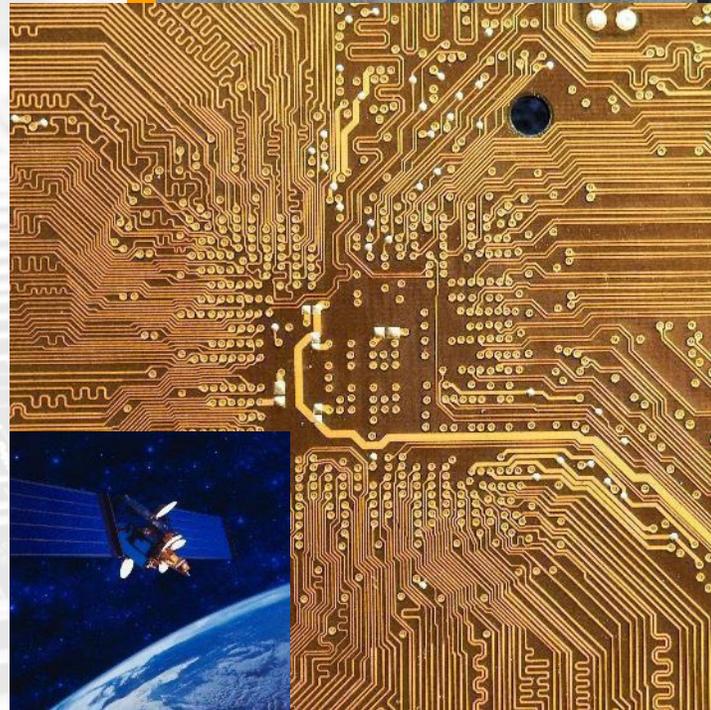


Defining & Delivering the Future of Mission-Critical Electronics

September 15th, 2025



Corporate Overview

Defining & Delivering the Future of Mission-Critical Electronics

- > Global leader within aerospace, defense and commercial markets

- > 15,000+ products across 16 Business Units

- > 1,500+ customers worldwide

- > ~ 900 employees in 20+ locations

- > 60+ years of history serving mission-critical electronics

- > Strong patent and IP position

Three Verticals of Mission-Critical Electronics

RF/MW Products

(Components to Integrated Assemblies)



Quantic Corry Quantic M-Wave
Quantic MWD Quantic TRM
Quantic PMI Quantic Wenzel
Quantic X-Microwave

Sensing Products

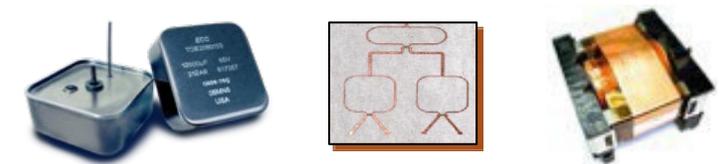
(Encoders, Scanners & Accelerometers)



Quantic BEI

Power Products

(Capacitors, Resistors & Magnetics)



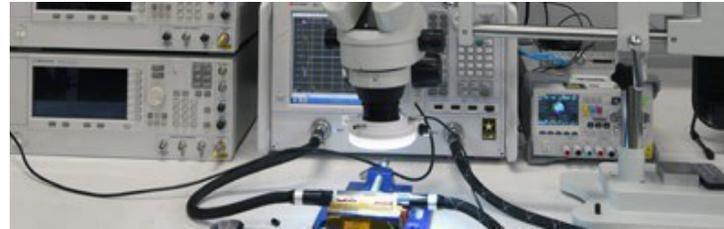
Quantic Evans
Quantic ECI Quantic Eulex
Quantic Paktron Quantic UTC
Quantic Ohmega Quantic Ticer

Aerospace & Defense (A&D)



Proven mission critical designs that meet the demanding requirements of secure communication, radar, electronic warfare, and satellite systems providing reliable and efficient performance in mission-critical environments.

Test & Measurement (T&M)



Designs include high-end RF Safety, Monitoring solutions & Antenna Measurements for multiple industries including telecommunications, aerospace, & defense (A&D), & diversified industrial with global product distribution.

Space / SATCOM Industrial & Commercial



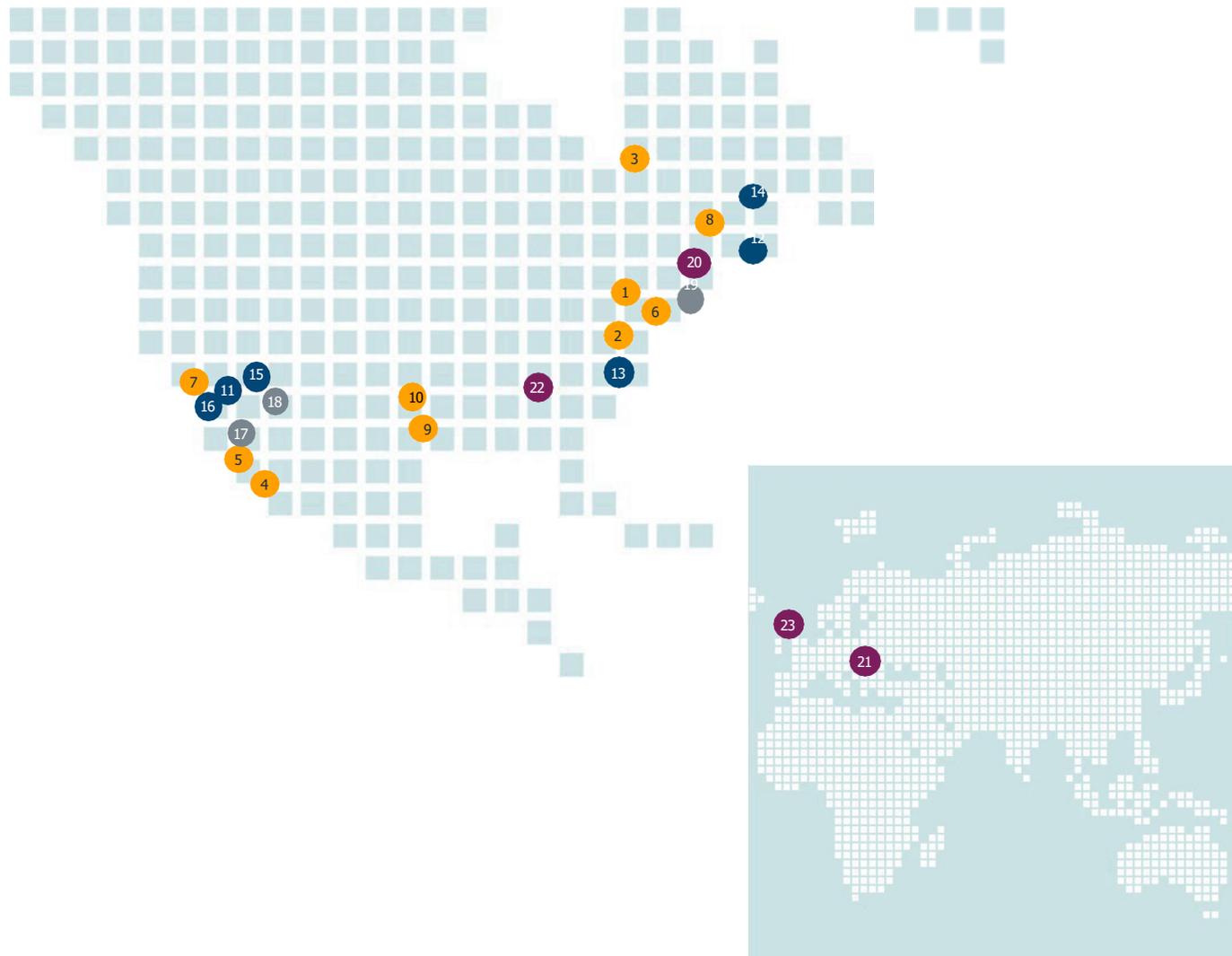
Solutions include up- and down-converters for military satellite control network, & other amplifier and power control solutions for military and civilian satellite-based communication applications.

Focused on Components & Modules in the Value Chain

- Primes/Tier 1**
Mission Integrated Systems
- Tier 2**
Integrated Subsystems
- Tier 3**
Modules
- Tier 4**
Components



Our Focus



RF & Microwave

- 1 Quantic Corry – Corry, Pennsylvania
- 2 Quantic Corry – Warrendale, Pennsylvania
- 3 Quantic Croven – Whitby, Ontario
- 4 Quantic M-Wave – Simi Valley, California
- 5 Quantic MWD – Irvine, California
- 6 Quantic PMI – Frederick, Maryland
- 7 Quantic PMI – El Dorado Hills, California
- 8 Quantic TRM – Bedford, New Hampshire
- 9 Quantic Wenzel – Austin, Texas
- 10 Quantic X-Microwave – Austin, Texas

Capacitors

- 11 Quantic Eulex – Monterey Park, California
- 12 Quantic Evans – East Providence, Rhode Island
- 13 Quantic Evans – Sanford, Maine
- 14 Quantic Paktron – Lynchburg, Virginia
- 15 Quantic TPC – Phoenix, Arizona
- 16 Quantic UTC – Monterey Park, California

Resistors

- 17 Quantic Omega – Culver City, California
- 18 Quantic Ticer – Chandler, Arizona
- 19 Quantic Ticer – Windsor, Connecticut

Magnetic & Sensing

- 20 Quantic ECI – Westfield, Massachusetts
- 21 Quantic ECI – Tatabanya, Hungary
- 22 Quantic BEI – Maumelle, Arkansas
- 23 Quantic Thistle – Midlothian, Scotland

Business Unit Leadership Team



Jon Crowley
XPMI Block Lead



Alan Sikarskie
VP & GM, Quantic BEI &
Quantic Thistle



Colin McClennan
VP & GM, Quantic Capacitors



Ken Boswell
VP & GM
Quantic M-Wave



Sebastian Palacio
VP & GM, Quantic PMI



Daniel Teuthorn
VP & GM
Quantic X-Microwave



Joe Svoboda
VP & GM, Quantic
Wenzel, Quantic MWD &
Quantic Croven



Lisa Wilhelm
VP & GM
Quantic Ohmega Ticer

Corporate Support Team



Jason Roth
President & CEO



Kristin Gawlik
Chief Financial Officer



Elizabeth Seigerman
VP, Talent and Culture



Cory King
VP Of Human Resources
IT/Legal/Compliance



James Lynn
VP, M&A and Strategy



Brendan Fullam
VP of Sales



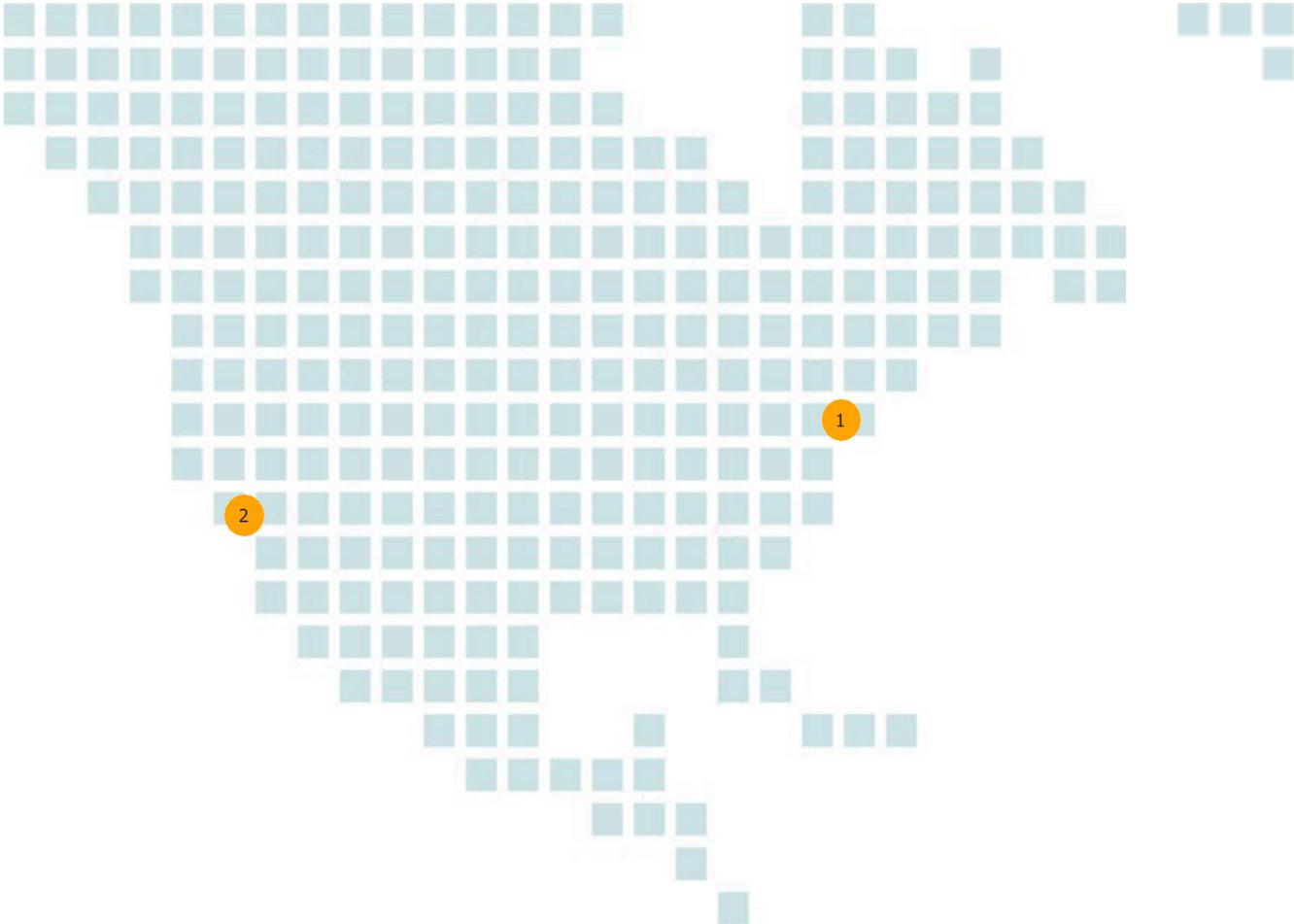
Ozzie Billimoria
VP, Marketing & Sales Ops

Quantic PMI Overview

Defining & Delivering the Future
of Mission-Critical Electronics

- > Global leader within military, space and commercial markets
- > Design & manufacture of Quality RF & Microwave Components & Integrated Module Assemblies
- > Offers 4500+ Hi-Rel commercial off-the-shelf (COTS) models with test results, S-parameters, 3D models and detailed specs available.
- > Every product is built to rigorous MIL-STD specs
- > ITAR & ISO-9001 Certifications
- > Industry-leading sales and applications support, leading to lower costs and faster lead times than competitive options.

Design and Manufacturing Locations



RF & Microwave

- 1 Quantic PMI – Frederick, Maryland
East Coast Operation
7309-A Grove Road
Frederick, MD 21704 USA

- 2 Quantic PMI – EL Dorado Hills, California
West Coast Operation
4921 Robert Mathews PKWY, Suite 1
EL Dorado Hills, CA 95762 USA

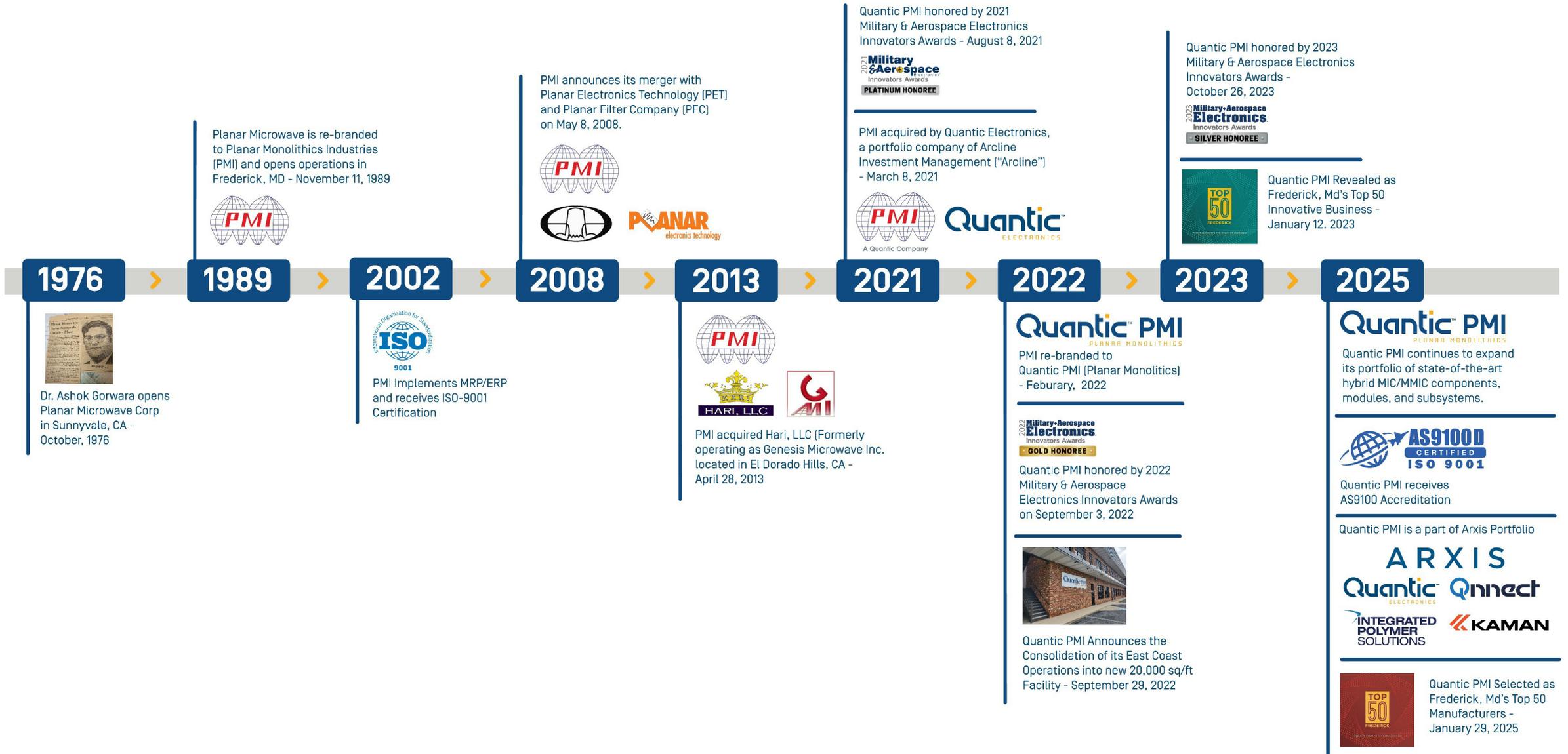
Tel: 301.662.5019
Fax: 301.662.1731

TEL: 916.542.1401
FAX: 916.265.2597

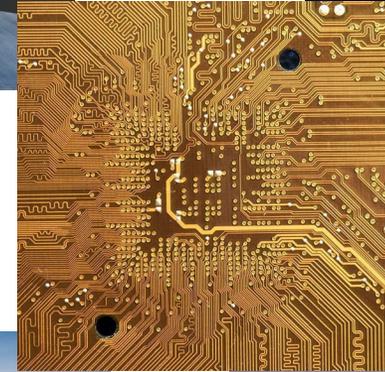
sales@quanticpmi.com

www.quanticpmi.com

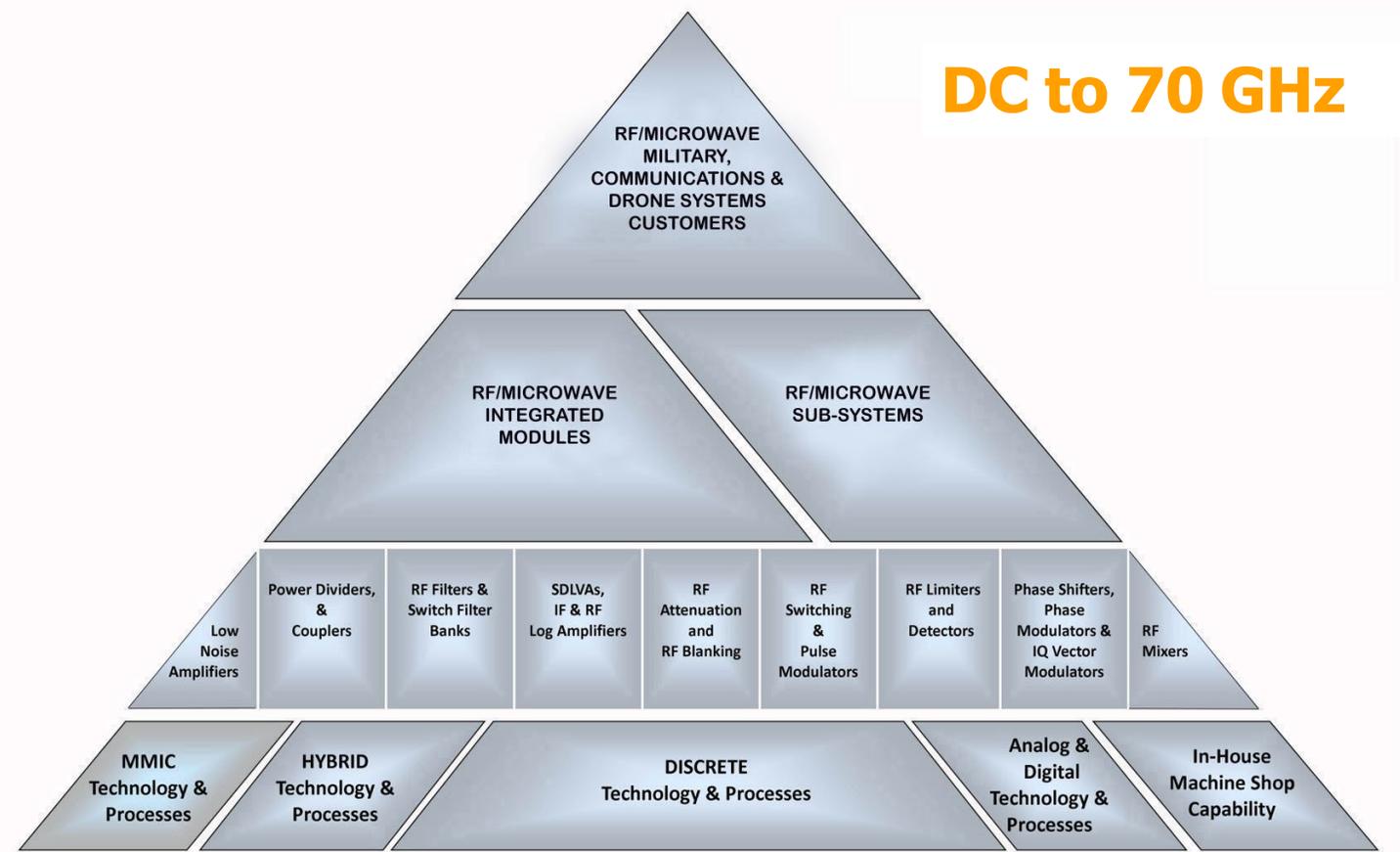
Milestones & Accreditations



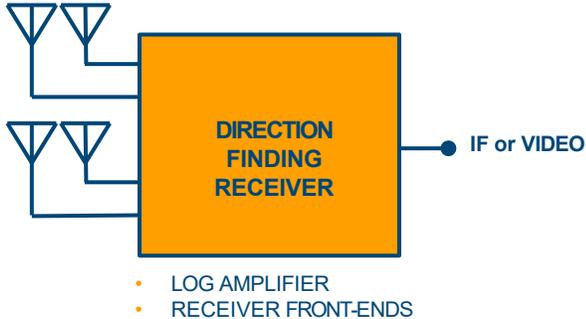
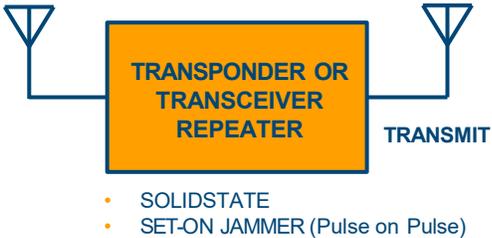
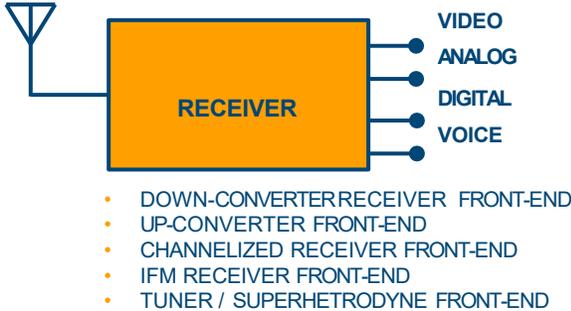
Design & Applications



As a manufacturer Quantic PMI utilizes our own designs for all components, integrated modules and subsystems



Applications of Quantic PMI Components & Sub-Systems



Quantic PMI (Planar Monolithics) has been in business for over 30 years as a world-class designer and manufacturer of electronic components and subsystems for mission critical applications such as **Receiver Front-Ends, Synthesizers, and Transceivers**. A large variety of **RF components and integrated modules** have been developed to compliment this target market. Our technical goal is to produce the finest products available that resolve this mathematical statement:

$$V_{(input)} = A \cos(\omega_c t + \phi_t)$$

↓

AMPLITUDE

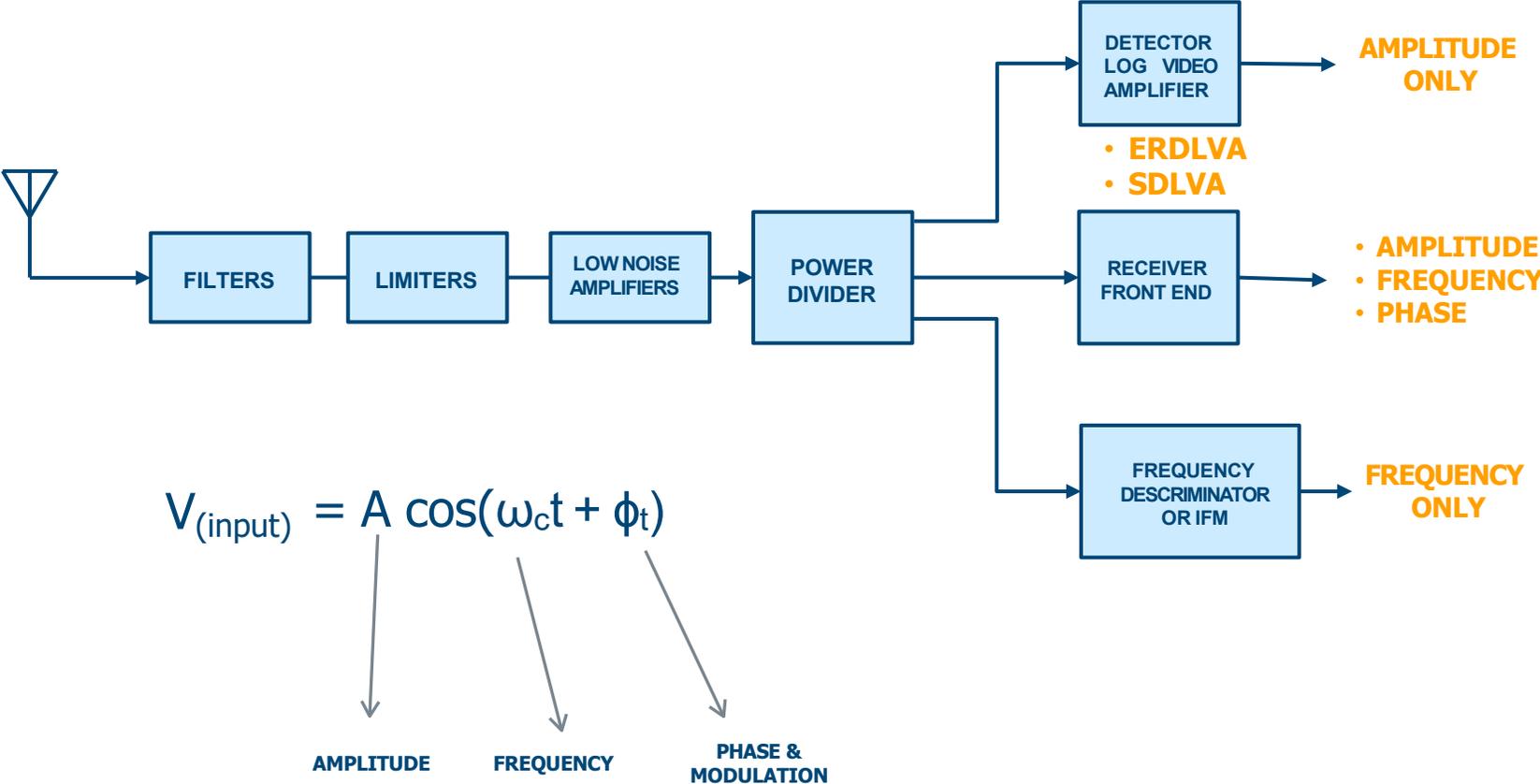
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FREQUENCY

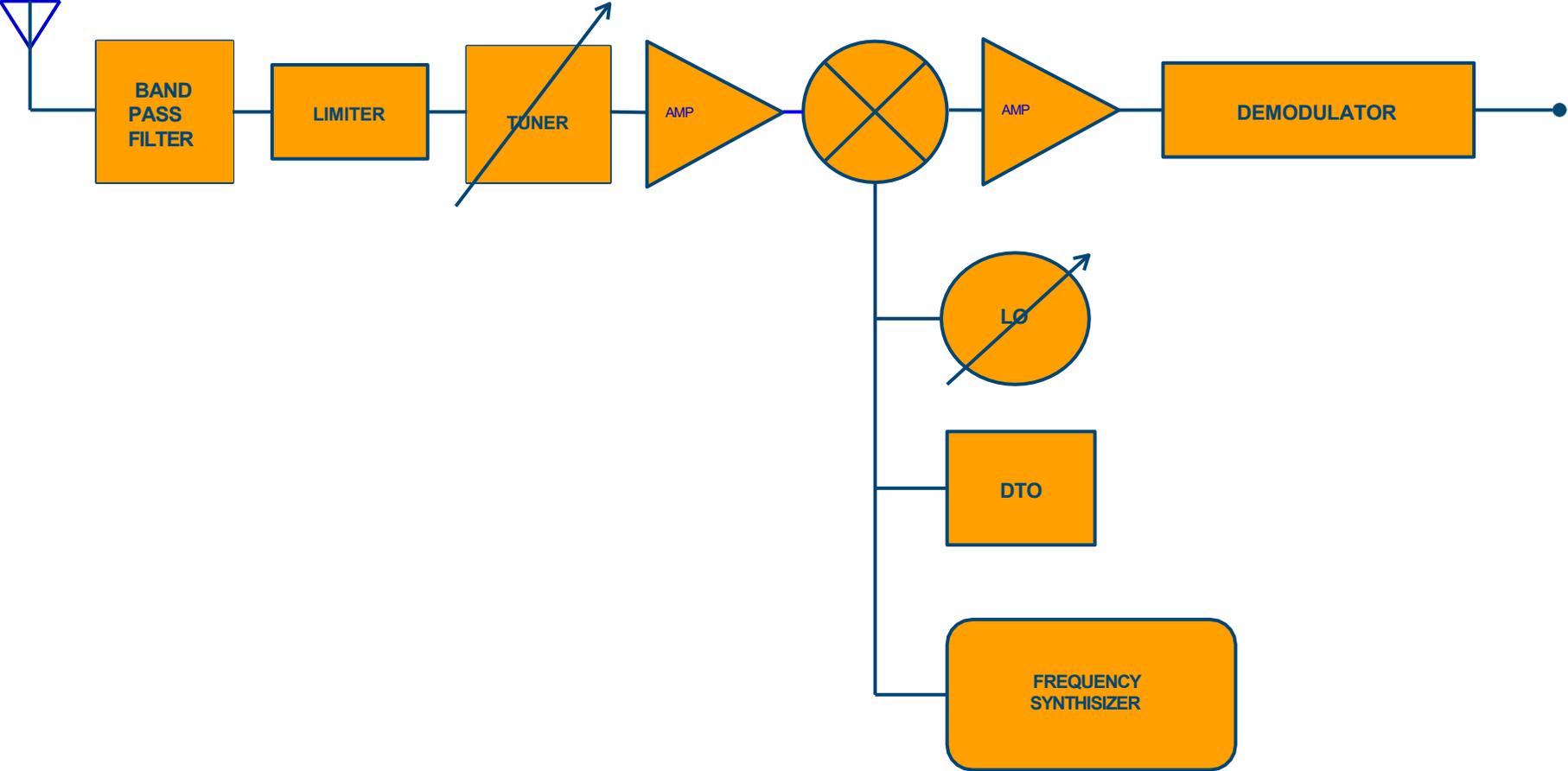
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PHASE & MODULATION

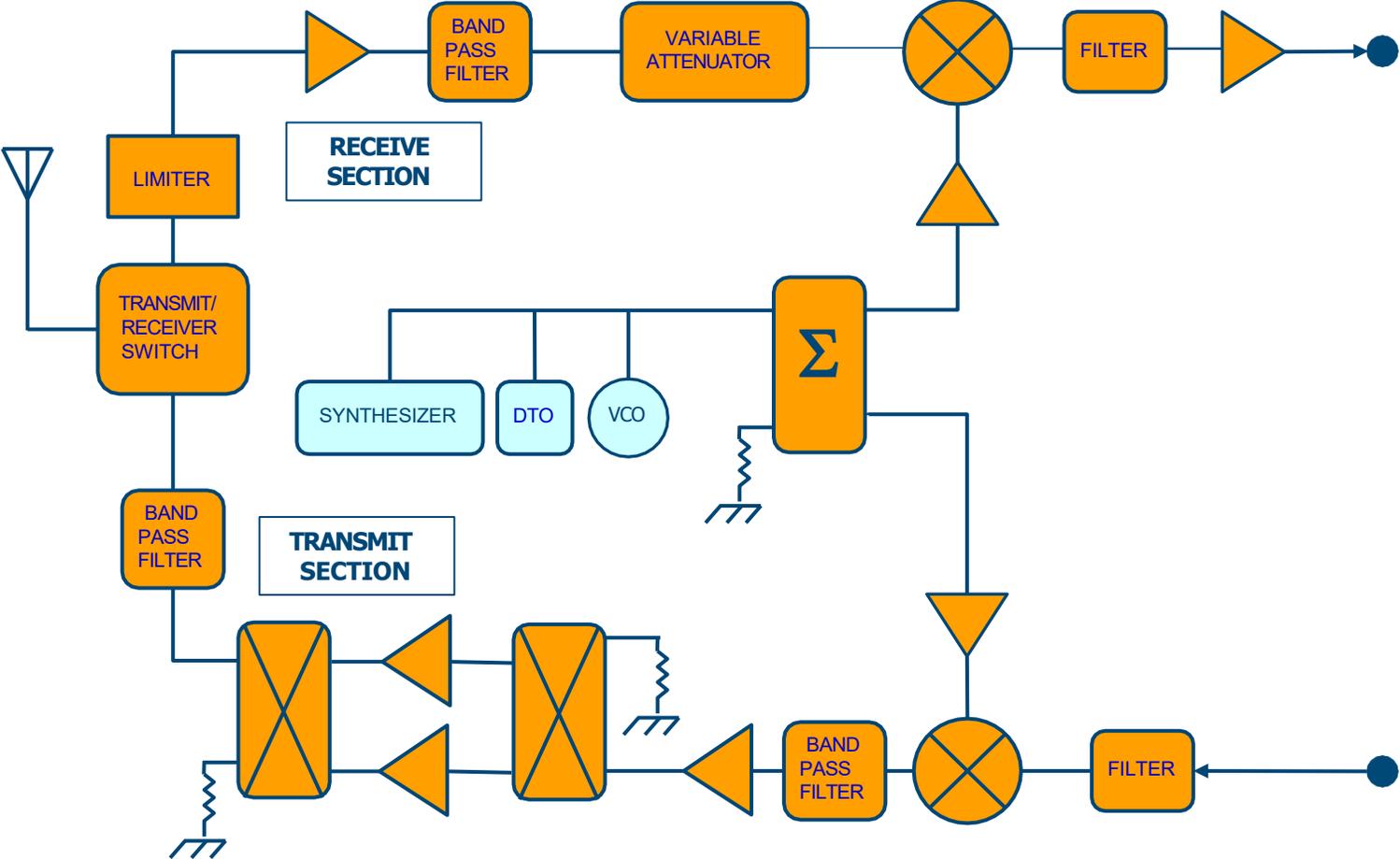
TYPICAL EW, ECM, ESM RECEIVER FRONT-END



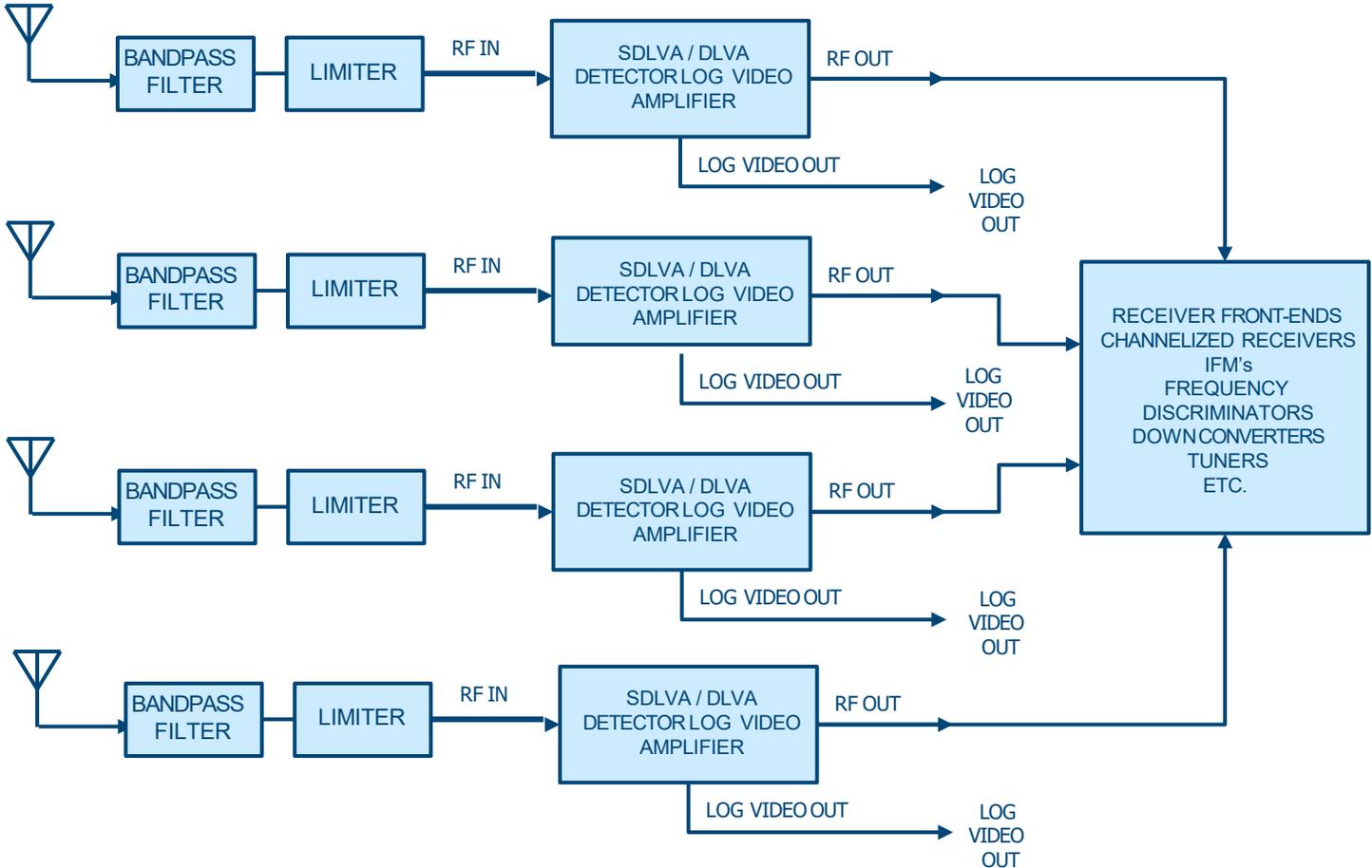
TYPICAL EW, ECM, ESM RECEIVER FRONT-END



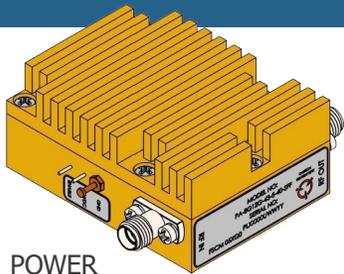
TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM



TYPICAL RADAR WARNING RECEIVER FRONT-END OR DIRECTION FINDING RECEIVER FRONT-END SUB-SYSTEM



Quantic PMI can transform any MMIC or QFN into a DC – 70 GHz Hi-Rel Packaged Component

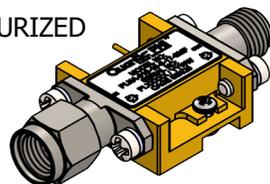


POWER



RUGGEDIZED

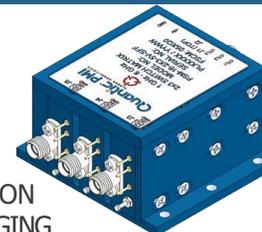
MINIATURIZED



SURFACE MOUNT



CUSTOM PACKAGING



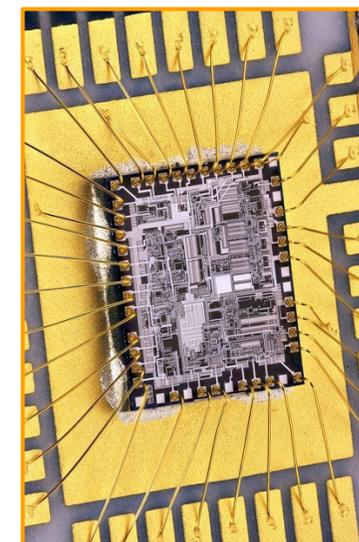
CARD SLOT / RACK MOUNT

MIL-AERO – Hi-Rel Design & Packaging

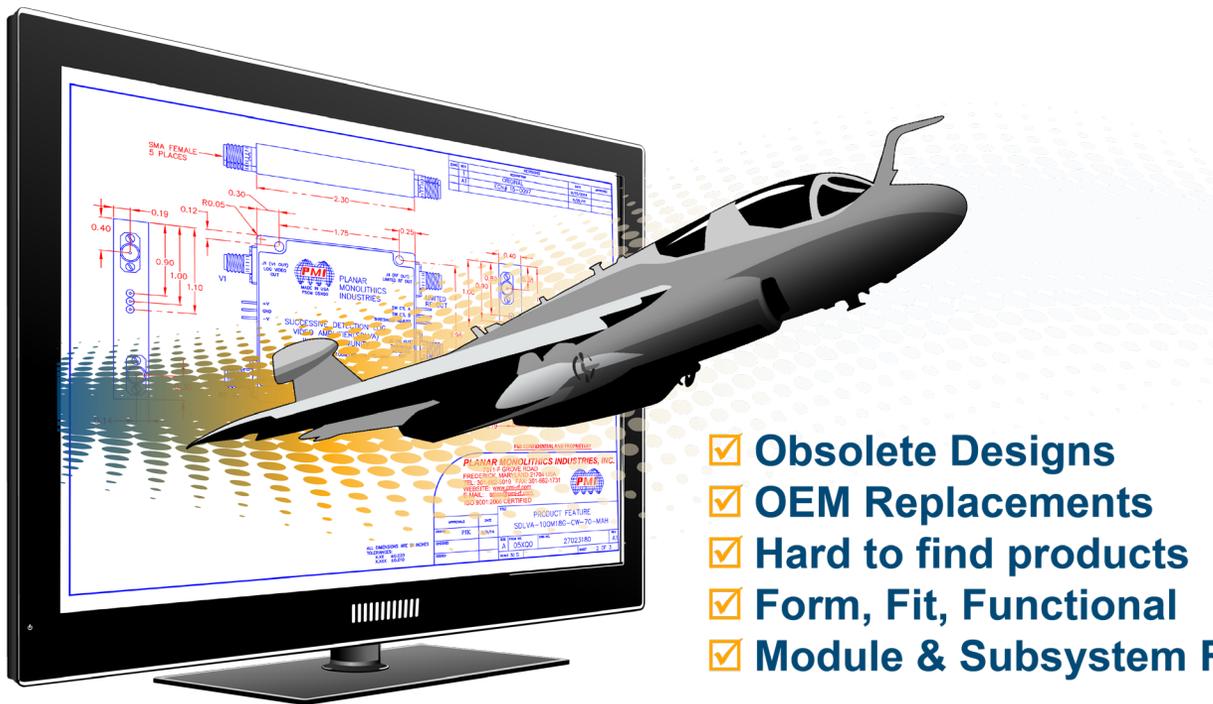
- > 20k sq/ft State of the art facility with 10k class cleanroom
- > ISO9001/AS9100 certified
- > ITAR Registered and Facility Clearance
- > Kick off Meeting / CDR / PDR
- > Complete Document Package
- > Mean time between failure analysis (MTBF report)
- > MIL-STD-810 Environmental Stress Screening (ESS)
- > Qualification Testing (QTP / QTR)
- > 100% MIL-STD-883 Inspection (Precap / ATP / SI)
- > First Article Inspection IAW AS9102
- > Recurring production – Continuous Acquisition & Life-cycle support (CALs)

Custom & COTS Solutions include

- > Assembly including wire, ribbon, ball bonding 100% pull tested
- > Hermetic, screw or epoxy sealing
- > Form, Fit, Function Products & Services
- > Over voltage and reverse protection
- > Supply voltage conditioning (Regulation & noise filtering)
- > Built in sequencing protection
- > Control signals Digital or Analog
 - TTL, RS232, PECL, LVTTTL, BCD, Differential Pair, USB
 - Simple DC analog voltage
- > Broadband DC Blocking networks
- > EMI / ESD Shielding & Protection



Quantic PMI is a Leader in EOL & Obsolete Aftermarket Manufacturing

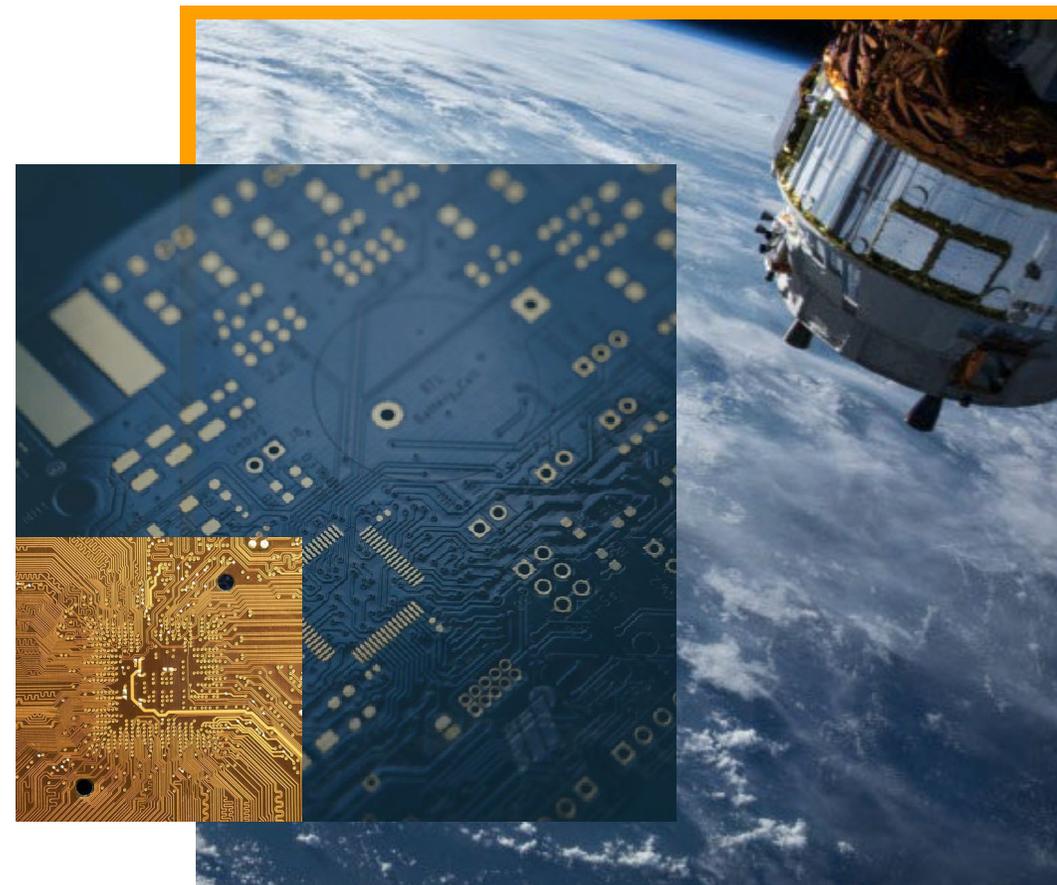


- ✓ **Obsolete Designs**
- ✓ **OEM Replacements**
- ✓ **Hard to find products**
- ✓ **Form, Fit, Functional**
- ✓ **Module & Subsystem Retrofits**

- > Using Source Control Drawings (SCD), Quantic PMI offers a complete solution to meet or exceed the electrical, mechanical and environmental specifications.
- > Specializing in aftermarket technology manufacturing and support for discontinued RF components, electronic circuits, digital circuits and Integrated circuits.
- > Quantic PMI has the technical expertise to manufacture, supply and support these requirements.
- > Quantic PMI is dedicated to assuring our customer base that older discontinued products will continue to be available.

RF & Microwave Products

DC to 70 GHz



Active Components



Industry leading Logarithmic Amplifiers, Converters, Limiters, Low-Noise Amplifiers (LNAs), Phase Shifters, Solid State Switches, Digital Attenuators, Frequency Sources, Switched Filter Banks, IQ Modulators, and other complex RF solutions.

Passive Components



Portfolio includes Limiters, Filters, Couplers, Dividers, Combiners, Hybrids, Monopulse Comparators, equalizers and many more.

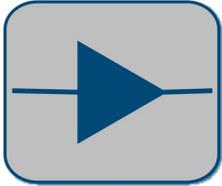
Integrated Microwave Assemblies (IMAs)



Solutions include RF modules, highly regarded line of frequency downconverters, and other solutions that support challenging national security, aerospace and defense mission-critical applications such as electronic warfare (EW) and signals intelligence (SIGINT).

Products & Services

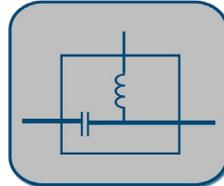
Solid State Amplifiers



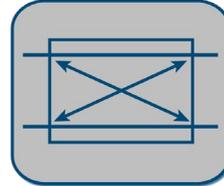
Attenuators - Digital & Analog / Fixed



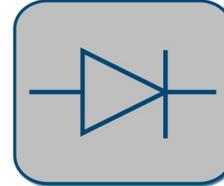
Bias Tees



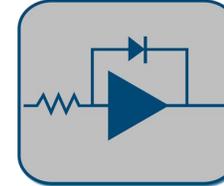
Couplers (90°, 180°, Directional & Pick-off Tees)



Detectors



Detector Logarithmic Video Amplifiers



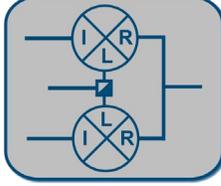
Filters & Switch Filter Banks



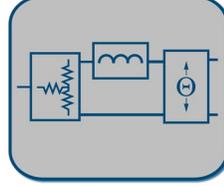
Form, Fit, Functional Products & Services



Frequency Converters



Frequency Discriminators & IFM



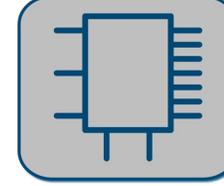
Frequency Sources



Gain & Loss Equalizers



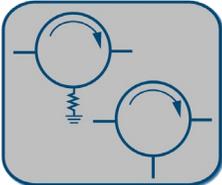
Integrated Microwave Assemblies (IMAs)



IQ Vector Modulators



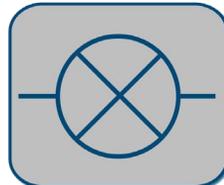
Isolators & Circulators



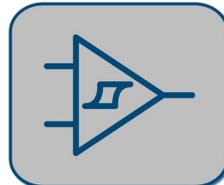
Limiters



Mixers



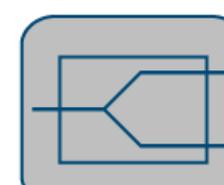
Monopulse Comparators



Phase Shifters & Bi-Phase Modulators



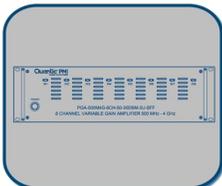
Power Dividers / Combiners



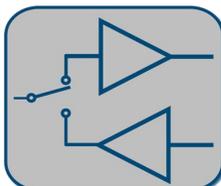
Prescalers & Multipliers



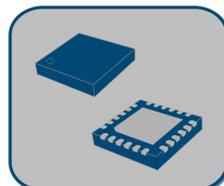
Rack & Chassis Mount Products



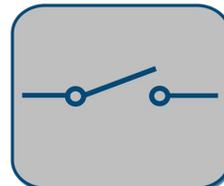
Receiver Front Ends & Transceivers



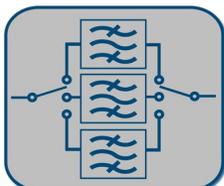
SMT & QFN Products



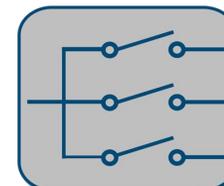
Solid-State Switches



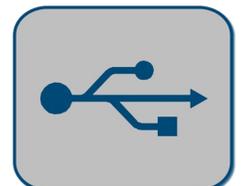
Switch Filter Banks



Switch Matrices



USB Products

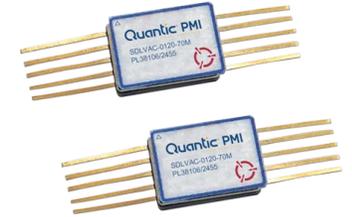


Detector Logarithmic Video Amplifiers

- > DLVAs, ERDLVAs, SDLVAs Designs
- > Exceptional Temperature Stability, Log Linearity & Frequency Response
- > TSS > -68 dBm & Fast Log Video Response Time
- > CW Immunity, Temperature Compensation & Matched Sets
- > Hermetic Sealing, Military or Aerospace Screening available
- > Connectorized or surface mount
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



0.7 to 1.3 GHz
IF Logarithmic Amplifier
(SDLVA)



0.1 to 2 GHz
Miniature SDLVA



2 to 18 GHz,
65 dB CW Immune ERDLVA



Detector Log Video Amplifier



18 to 40 GHz DLVA



0.5 to 4 GHz SDLVA

Switches & Switch Matrices

- > Broadband Performance to 70 GHz
- > Solid State
- > Ultra-High Isolation
- > Low Insertion Loss
- > Ultra-High Speed
- > Low Power Consumption
- > SP1T - SP64T (Reflective or Absorptive)
- > Connectorized or Surface Mount
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



0.1 to 20 GHz
SP4T Absorptive Switch



0.1 to 52 GHz
SP16T Absorptive Switch



0.5 to 18 GHz
SP6T Reflective Switch



7 to 18 GHz
SP20T Absorptive Switch



0.1 to 44 GHz
SP2T Absorptive Switch



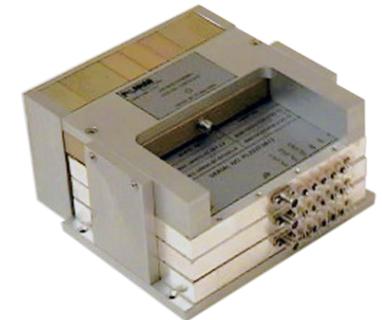
0.1 to 56 GHz
SP2T Absorptive Switch



2 to 18 GHz
SP2T Absorptive Switch



100 MHz to 54 GHz
SP8T Absorptive Switch



20 MHz to 3 GHz, SP8T
Switch Matrix Assembly

Solid State Amplifiers

- > Low Noise Amplifiers (Broadband, Narrow Band & Multioctave)
- > Variable Gain, High IP SIGINT & Limiting Amplifiers
- > Coaxial, Power, Test & Lab Use Amplifiers
- > Gain & Phase Matching
- > Hermetic Sealing, Military or Aerospace Screening available
- > Connectorized or surface mount
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



2023 **Military-Aerospace Electronics** Innovators Awards
SILVER HONOREE



2 to 18 GHz High-Power Amplifier



Ultra-Low Noise Amplifier
Dual use component



0.25 to 20 GHz
Low Noise Amplifier



0.5 to 18 GHz
Dual Gain Amplifier



High Linearity,
Low Noise Amplifier



1 to 18 GHz
Portable Amplifier

- > Broadband Performance to 62 GHz
- > High Peak Power Handling
- > Fast Recovery & Low RF Leakage
- > Low Insertion Loss
- > Small Size & Standardized Packaging
- > Hermetic Sealing, Military Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



0.1 to 6 GHz
2.5 W CW Limiter



0.01 to 62 GHz
1.5 W CW Limiter



0.02 to 18 GHz,
100 W CW
RF Limiter



1 to 18 GHz,
3 W CW Limiter



32 to 36 GHz
20 W Peak Limiter



26.5 to 40 GHz
20W Peak Limiter



18 to 40 GHz
2 W Limiter

Filters & Switch Filter Banks

- > Low-Pass, High-Pass, Band-Pass, Notch or Bandstop, Diplexers & Multiplexers
- > Filter Types: Lumped-Element, Cavity, Compline, Printed, Hairpin, Suspended Substrate, Edge-coupled, Stripline
- > Hermetic Sealing, Military or Aerospace Screening available
- > Connectorized or surface mount
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



Band Pass Filter



1 to 20 GHz
6-Channel Switch Filter Bank



Low Pass Filter with
2.4 GHz Cutoff
Frequency



DC to 26 GHz
5-Channel Switch Filter Bank



Double Sided, 100 MHz to 18.0 GHz
6 Channel Switch Filter Bank



Miniature, 2 Channel Switch Filter Bank

Attenuators – Fixed, Digital or Analog Control

- > Ultra-Broadband Performance to 50 GHz
- > High Attenuation Accuracy
- > Low Insertion Loss
- > Excellent Frequency Flatness
- > Analog or Digital Control Available
- > High Speed & Very Small Packaging
- > Hermetic Sealing, Military or Aerospace Screening available
- > Connectorized or surface mount
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



**13 to 14 GHz
8-Bit Programmable Attenuator**



**1 to 18 GHz
7-Bit Programmable Attenuator**



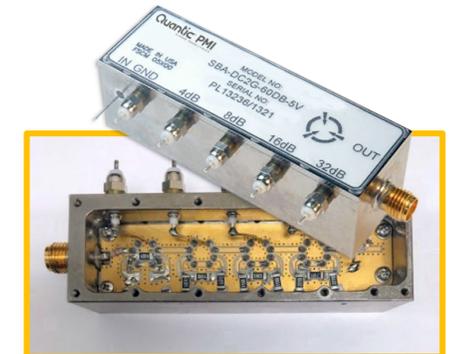
**0.1 to 0.3 GHz
Voltage Controlled Attenuator**



**1 to 4 GHz,
Voltage Variable Attenuator**



**3.1 to 3.5 GHz
Bi-Directional Variable
Attenuator**



**DC to 2 GHz, Electro-mechanical
STEP Attenuator**

Phase Shifters

- > 0 to 360°
- > Broadband to 40 GHz
- > Ideal for Industrial & Military Applications
- > Analog or Digital Controlled
- > Fast Speed & Response
- > Low Insertion Loss
- > High Phase Accuracy
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



0.085 to 4 GHz
Digitally Controlled Analog
Phase Shifter



0.2 to 10 GHz
8-Bit Digital Phase Shifter



2 to 18 GHz
12-Bit Vector Phase Shifter



32 to 37 GHz
8-Bit Digitally Controlled
Phase Shifter



6 to 18 GHz
10-Bit Digitally Controlled
Phase Shifter



2 to 18 GHz
8-Bit Phase Shifter



2 to 8 GHz, 8 Bit, 360°
Digital Phase Shifter

Bi-Phase Modulators

- > 90°, 360° Models
- > Low Insertion Loss
- > Flat Response
- > Digital Control
- > High Phase Accuracy
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



18 to 40 GHz
Bi-Phase Modulator



2 to 18 GHz
Bi-Phase Modulator



2 to 6 GHz
Bi-Phase Modulator/Shifter



1.1 to 1.12 GHz,
180° Bi-Phase
Modulator/Phase Shifter

I/Q Vector Modulators

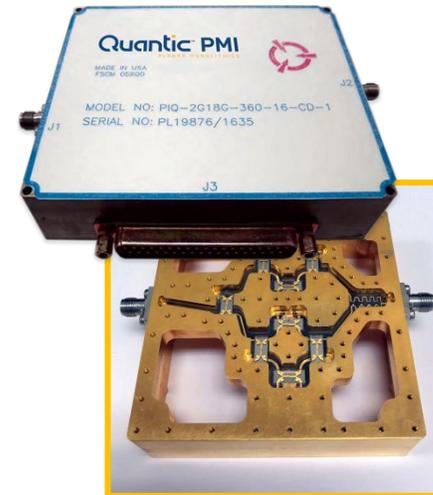
- > Ultra-Broadband Performance to 40 GHz
- > High Speed Modulation
- > Analog & Digital I/Q Inputs
- > Low Spurious Response
- > Low Insertion Loss
- > High Absolute Phase Accuracy
- > Low Current Consumption
- > Hermetic Sealing, Military Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



Vector Modulator



0.5 to 2 GHz,
I/Q Vector Modulator



6 to 18 GHz,
I/Q Vector Modulator



85 MHz to 18 GHz, I/Q Vector Modulator

Monopulse Comparators

- > Frequency coverage up to 36 GHz
- > Rugged Coaxial Design
- > Low VSWR
- > High Power Handling with Minimum Insertion Loss
- > High Isolation between Channel Ports for Optimum Phase & Amplitude Balance
- > Hermetic Sealing, Military Screening or Aerospace Screening Available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



5 to 6 GHz
Monopulse Comparator



3 to 3.7 GHz
Monopulse Comparator



9.3 to 9.9 GHz
4-Way Phase Divider



12 to 13 GHz
Monopulse Comparator



20.2 to 21.2 GHz
Monopulse Circuit

- > Up / Down Converter Designs
- > Ideal for Industrial & Military Applications
 - Radar Warning, ECM, ESM & ELINT
 - EW / SIGINT
 - Radar Test Equipment
 - Microwave Radio
 - Instrumentation Modules
- > Designed to withstand stringent military ground or airborne environments
- > Frequency Coverage up to 40 GHz
- > Form, Fit & Function Products & Services



4.4 to 7.8 GHz
Down Converter Module



7.8 to 11.2 GHz
Down Converter Module



11.2 to 14.6 GHz
Down Converter Module



14.6 to 18 GHz
Down Converter Module

Frequency Sources

- > Designed for Industrial & Military Applications
 - Radar Warning, ECM, ESM & ELINT
 - EW / SIGINT
 - Radar Test Equipment
 - Microwave Radio
 - Instrumentation Modules
- > Synthesizers, DTOs, PLOs, PLDROs, , DROs, VCOs, OCXOs, Cos types available
- > All models can withstand stringent military ground or airborne environments
- > Frequency Coverage up to 40 GHz
- > High Level of Frequency Accuracy
- > Linearized Frequency Tuning
- > Low Frequency Drift, Phase Noise & Harmonic Content
- > Internal Digital Calibration
- > Temperature Compensation
- > Form, Fit & Function Products & Services



8.8 to 9.46 GHz
Temperature Stabilized Output
Medium Power X-Band Gunn-Effect
Oscillator



2 to 18 GHz,
Digitally Tuned Oscillator (DTO)



Digitally Tuned
Oscillators (DTOs)



6 to 18 GHz, Synthesizer



Custom Frequency Doubler Module



10 MHz Reference
Source



10.0 GHz, Integrated Phase
Shifter Dielectric Resonator
Oscillator (DRO) Module



840 MHz Phase-Locked Oscillator

Gain & Loss Equalizers

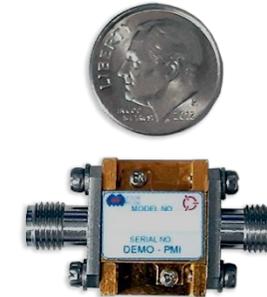
- > Ideal for Equalizing Cable Loss or Gain Flatness
- > Narrow-bandwidths or broadband up to 40 GHz
- > Low Insertion Loss & VSWR
- > Various frequency equalization values
- > Multiple and Custom slope characteristics
- > Surface Mount or Connectorized
- > Hermetic Sealing, Military or Aerospace Screening Available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



26.5 to 40 GHz, 1.5 dB
Passive Amplitude Equalizer



17.6 to 21.6 GHz, 12 dB
Passive Amplitude Equalizer



DC to 40 GHz
Passive Equalizer



DC to 20 GHz
Passive Equalizer

Detectors - Diode, Directional, Threshold

- > Broadband Frequency coverage to 40 GHz
- > Low VSWR & Insertion Loss
- > Excellent Frequency Flatness
- > Small Package Size
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



0.01 to 18 GHz
Low Noise Tunnel
Diode Detector



0.5 to 18 GHz, High Speed,
High Sensitivity Diode Detector



18 to 40 GHz, Low Noise,
Tunnel Diode Detector



4 to 26.5 GHz,
Zero Bias Schottky Detector



6 to 18 GHz
Biased Schottky Diode
Detector



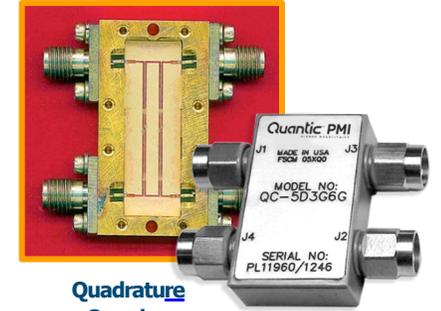
2 to 18 GHz, High Speed,
High Sensitivity Diode Detector

Couplers – 90°, 180°, Directional & Bi-directional

- > Broadband Response
- > High Isolation
- > Excellent Phase & Amplitude Balance
- > Small Package Size
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



DC to 18.0 GHz
Directional Coupler



Quadrature
Couplers



5 to 10 GHz
Hybrid Coupler



8.0 to 11.0 GHz
Directional Coupler



0.02 to 6 GHz
90° Hybrid Coupler



90° Hybrid Coupler

Power Dividers/ Combiners (Passive & Active)

- > Designs for Commercial, Military & Aerospace Applications
- > Low Loss & High Isolation
- > Excellent Amplitude & Phase Balance
- > 2-Way to 16-Way Configurations
- > Broadband Frequency coverage to 50 GHz
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



18 to 40 GHz
2-Way Power Divider



2 to 20 GHz
8-Way Power Divider



0.02 to 6 GHz, Amplified 4-Way Power Divider



0.5 to 18 GHz
16-Way Power Divider



2 to 26 GHz
4-Way Power Divider



0.5 to 18 GHz
16-Way Power Divider



4.4 to 18 GHz, SMPM
4-Way Power Divider



0.1 GHz, Amplified
8-Way Power Divider

Rack and Chassis Mount Products

- > Designs for Commercial, Military & Aerospace Applications
- > Supplied in Ruggedized, 1U to 6U chassis
- > A mixed set of functions:
 - Amplification
 - Attenuation (Digital Solid-State)
 - Switching (Ultra High Speed)
 - Power Detection / Fault Detection
 - Phase Shifting / Phase Modulation
 - Pulse Modulation / Noise Generation
 - RF Filtering / RF Limiting
 - Power Splitting
 - RF Signal Distribution
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



Ethernet Microcontroller Test Box



Multiagent Radio Frequency Path Simulator



10 MHz to 6 GHz, High Gain Amplifier
Integrated Microwave Assembly



0.1 to 18 GHz High Gain Amplifier
Integrated Microwave Assembly



RF Signal Distribution Systems



0.5 to 18 GHz
16-Way Power Divider



10-Way Switch Filter Bank

Frequency Discriminators & IFM

- > Designed for Industrial & Military Applications
 - Radar Warning (RW)
 - Electronic Countermeasures (ECM)
 - Electronic Support Measures (ESM)
 - Electronic Intelligence (ELINT) Applications
- > Digital or Analog Outputs
- > Narrow & Broadband Frequency Coverage up to 18 GHz
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



30 MHz
Frequency Discriminator



2 to 18 GHz
Digital Frequency Discriminator



1 GHz, Frequency Discriminator



3.1 to 3.5 GHz
Frequency Discriminator



1 to 18 GHz,
Frequency Discriminator

Delay Line in a
Frequency Discriminator

USB Products

- > Broadband Performance to 40 GHz
- > Low Noise Amplifiers, Variable Attenuators & Switch Designs available
- > Low Insertion Loss
- > All Models use Standard USB 2.0 port
- > SMA or 2.92mm Female Connectors
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



50 MHz to 18 GHz, 12 dB Gain
USB Powered LNA



50 MHz to 40 GHz, 12 dB Gain
USB Powered LNA



100 MHz to 18 GHz, 30 dB
USB Attenuator



100 MHz to 40 GHz, 30 dB
USB Attenuator



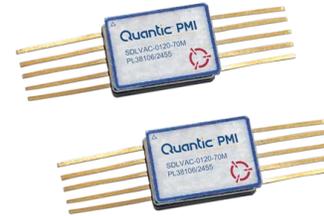
500 MHz to 18 GHz
USB Powered SP2T
Switch



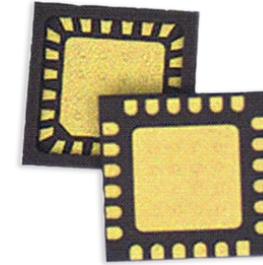
500 MHz to 40 GHz
USB Powered SP2T
Switch

SMT & QFN Products

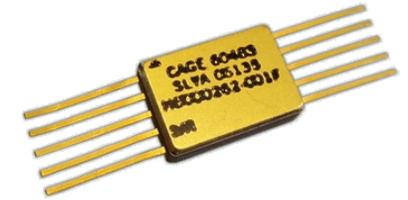
- > Quantic PMI offers Surface mount (SMT) & QFN packaging for many types of devices....SDLVA's, Log Amplifiers, Phase Shifters, Attenuators, Switches, as well as Low Noise Amplifiers.
- > Multifunction options available in a single QFN package such as Limiters / LNA or LNA / Detectors.
- > Custom devices that meet your specific control function can be designed & integrated into specified packaging with the required testing.



0.1 to 2 GHz
Miniature SDLVA



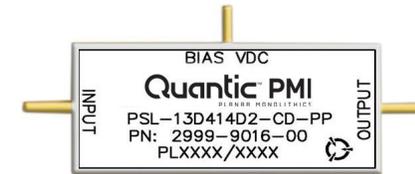
14.4 to 15.4 GHz
RF Limiter & Low Noise Amplifier



0.6 to 1.35 GHz
Miniature SDLVA



10 MHz to 62 GHz
High Power Limiter



13.4 to 14.2 GHz
High Power Switch Limiter



DC to 20 GHz
Equalizer



18.0 to 40 GHz
High Power Limiter



0.7 to 1.3 GHz
Miniature SDLVA



14.4 to 15.4 GHz
High Power SPST Switch

Integrated MIC/MMIC Modules & Assemblies (IMAs)

- > Broadband to 50 GHz
- > Built to your specifications with functions:
 - Amplification
 - Attenuation
 - Filtering
 - Frequency Discrimination
 - Switching
 - Phase Shifting
 - Power Detection
 - Modulation/Demodulation
 - Coupling
 - Limiting
 - Digital/Analog Control
- > Hermetic Sealing, Military Screening available
- > Form, Fit & Function Products & Services
- > Build to Print or Built to your SCD



0.5 to 18 GHz, Custom Phase ($\pm 10^\circ$) & Amplitude (± 1.5 dB) Matched Integrated Modules/Assemblies



2.6 to 5.2 GHz 8 Channel Selectable LO Frequency Source



10 GHz, Integrated Phase Shifter and Dielectric Resonator Oscillator (DRO) Module(Inside)



7.7 to 8.2 GHz Laser Control Module



0.1 to 18 GHz Transceiver (Phase II)

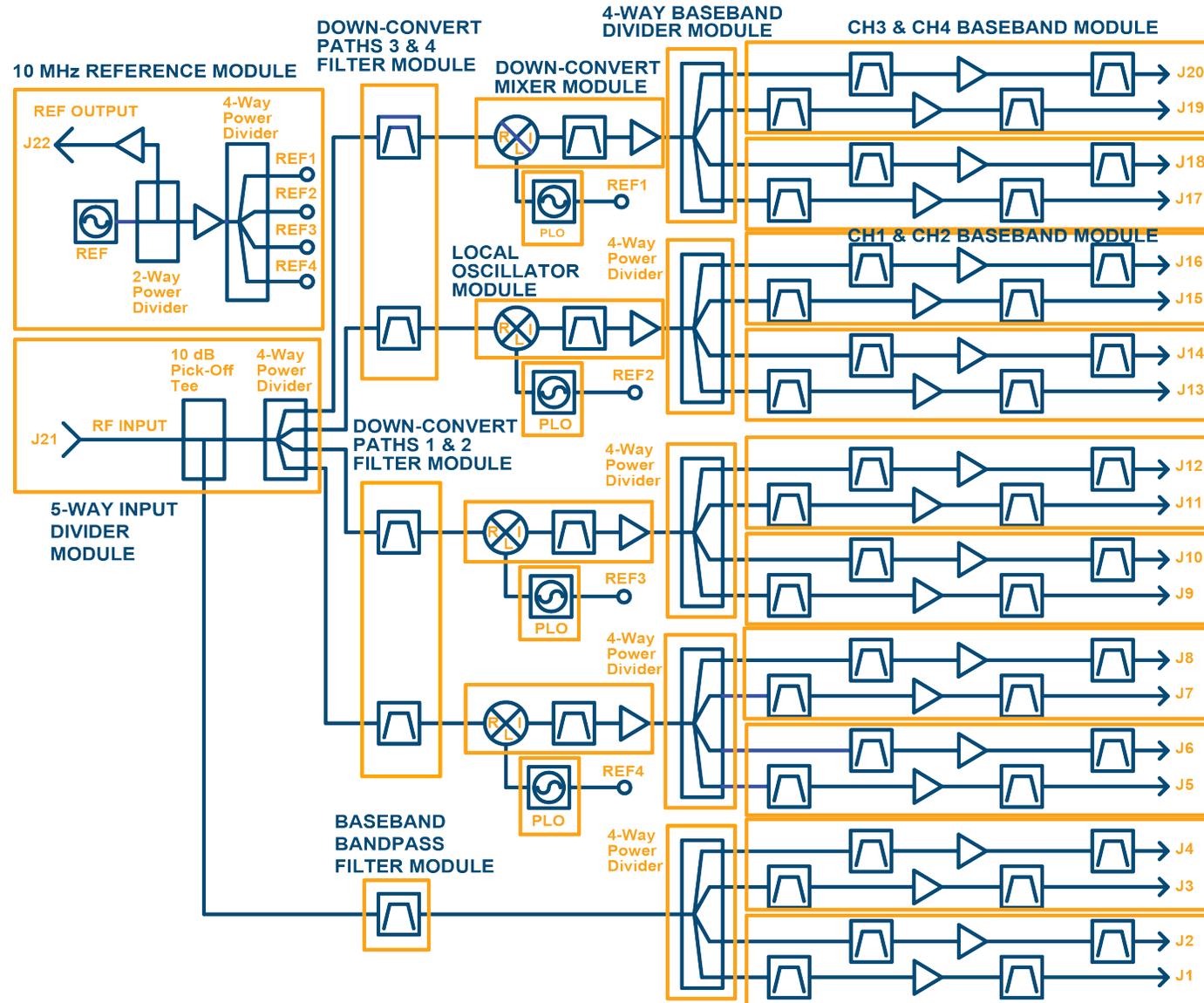
Integrated MIC/MMIC Modules & Assemblies (IMAs)



2021 **Military & Aerospace Electronics** Innovators Awards
PLATINUM HONOREE



1 to 18 GHz
Channelized Receiver



Receiver Front End & Transceiver Products

- > Designs for Commercial, Military & Aerospace Applications
- > Broadband Frequency coverage to 50 GHz
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Hermetic Sealing, Military or Aerospace Screening available
- > Form, Fit & Function Products & Services
- > Custom Designs to Your Specifications



2 to 18 GHz
Direction Finding Receiver Front End



100 MHz to 18 GHz
Transceiver (Phase II)



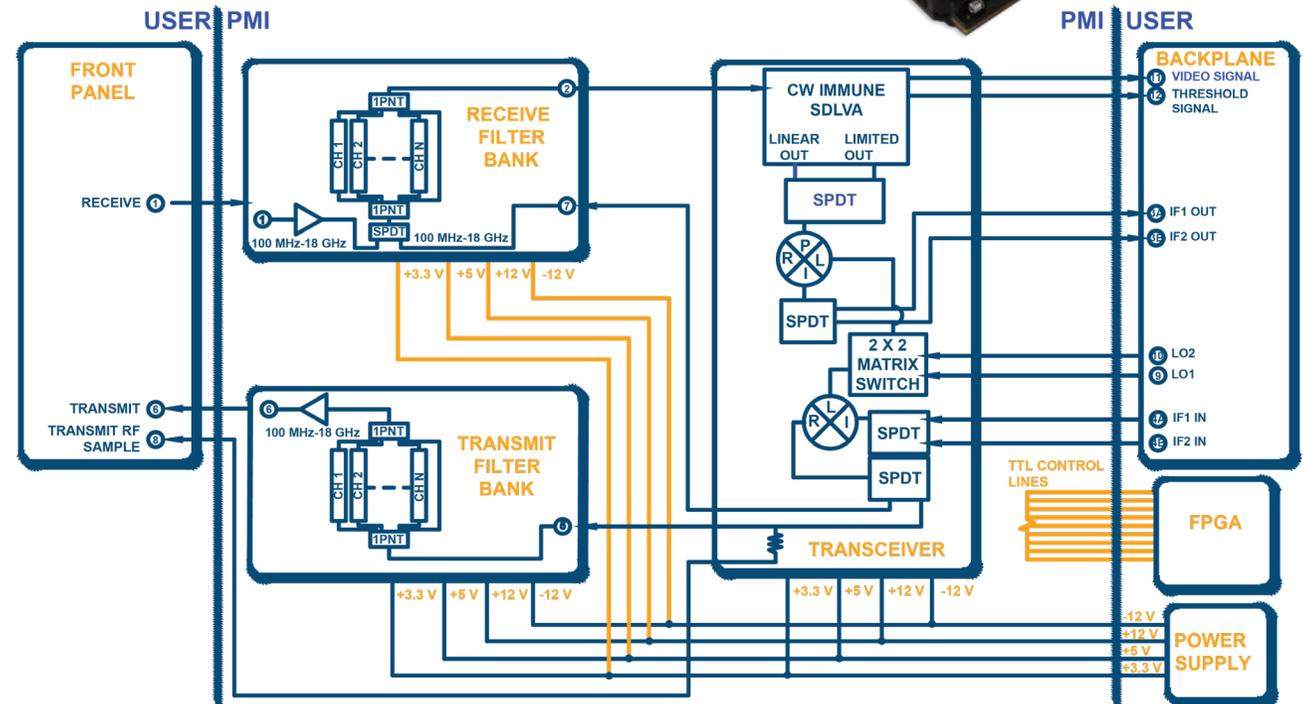
0.1 to 18 GHz Transceiver (Phase III)



100 MHz to 18 GHz Transceiver Unit

100 MHz to 18 GHz Transceiver

- > Integrated Up and Down Converters
- > IF up to 4 GHz
- > Time Gated SDLVA for Pulse Blanking
- > -80 to -10 dBm Input Dynamic Range
- > Customizable Switch Filter Banks
- > 0 to +10 dBm Transmit Power
- > 100 ns Switching Speed
- > Fits into a 3U open VPX form factor utilizing the high-speed VITA 67 RF connector
- > CW Immunity



Bias Tees

Standard three-port network for high current applications

- Designed to your application specific requirements covering frequency ranges to 70 GHz
- Features include high power handling, low insertion loss & excellent return loss
- Hermetic Sealing, Military or Aerospace Screening available



Passive & Active Mixers

Designed for form, fit, function applications

- Active, Double Balanced, Image Reject, I/Q designs available in connectorized or surface mount
- Designs to fit communication systems, satellite, radio transceivers, test & measurement applications
- Hermetic Sealing, Military or Aerospace Screening available



Isolators & Circulators

Coaxial or Surface Mount Configurations

- Customized designs for mobile communications, military, radar & satellite communications applications
- Features include broadband frequency coverage, excellent isolation, low insertion loss & rugged construction
- Hermetic Sealing, Military or Aerospace Screening available



Prescalers & Multipliers

Custom Designed to Your Specifications

- Designs for satellite communications, point-to-point & point-to-multipoint radios, military & space applications
- Broadband frequency coverage, specify divide by ratio, & low SSB phase noise
- Hermetic Sealing, Military or Aerospace Screening available



In-Stock / COTS Products – Same Day Shipping



- > Select Quantic PMI products are available from stock that can be shipped from Quantic PMI directly or one of its authorized distributors:



<https://www.quanticmpi.com/stock-items>

The screenshot shows the Quantic PMI website interface. At the top, there's a navigation bar with 'Home', 'About Us', 'Product Categories', 'Literature', 'Stock Items', 'Events', and 'Contact Us'. The main content area displays the product page for 'LM-150M5G-200CW-2KWPK-AGAL', an Ultra-High Power Limiter. A 'Buy Now' button is highlighted with a callout box. Below this, a table lists various product categories like 'Threshold Detectors', 'Isolators/Circulators', etc. A second table, 'Limiters - RF / Microwave / mmWave', lists several products with their specifications. Two products in this table, 'LM-218-14-200W-SMF *' and 'LM-6G18G-15-10W-SFF *', have callout boxes with 'Buy Now' buttons. The right sidebar contains 'Additional Documents' and a 'Request a Quote' button. The footer includes 'Contact Us', 'Events', 'Careers', 'Product Categories', and social media icons.

Part Number	Availability	Size	Frequency Max	Frequency Min	Status
FD-6018-18-812	Buy Now	2.00" x 1.82" x 0.50"	12 GHz	8 GHz	Active

Part Number	Availability	Input Power	Input/Output VSWR	Insertion Loss	Frequency Max	Frequency Min	Status
LM-218-14-200W-SMF *	Buy Now	1 W CW	2.0:1 max.	2.0 dB max @ Pin < 10 dBm	18.0 GHz	2.0 GHz	Active
LM-6G18G-15-10W-SFF *	Buy Now						Active
LM-1018G-16-4W-SMF	Buy Now						Active
LM-218-14-200W-SMF-HERM *	Buy Now	1 W CW	2.0:1 max	2.0 dB Maximum	18 GHz	2 GHz	Active
LM-300M1G-21-360W-SFF	Buy Now	+54 dBm CW Max (200 W) Peak Power 360 W, Pulse 2 ms, 10% Duty Cycle	2:1 Max		1.0 GHz	0.3 GHz	Active
LM-10M37G-15DBM-10W-AGAL	Buy Now	50 Watts Peak Max (0.02 to 12 GHz) 40 Watts Peak Max (18 GHz) (1 μs Pk, 1% Duty Cycle)	1.8:1 Max	0.01 to 8 GHz: 1.00 dB Max 8 to 18 GHz: 2.00 dB Max 18 to 30 GHz: 2.70 dB Max 30 to 37 GHz: 4.30 dB Max	37.0 GHz	0.01 GHz	Active
LM-10M12G-20-10W-SFF	Buy Now	+40 dBm CW Max Peak Power 100 W, Pulse 1 μs, 1% Duty Cycle	2:1 Max	2.0 dB Max	12.0 GHz	0.01 GHz	Active
LM-6018-18-1WSHS-1-F *	Buy Now	1 Watt CW, 100 Watts Peak, 1 μs Pulse, 0.1% Duty Cycle, Derated to 20% at 125 °C	2.0:1 Max	2.0 dB Max, 1.5 dB Typ	18 GHz	0.5 GHz	Active

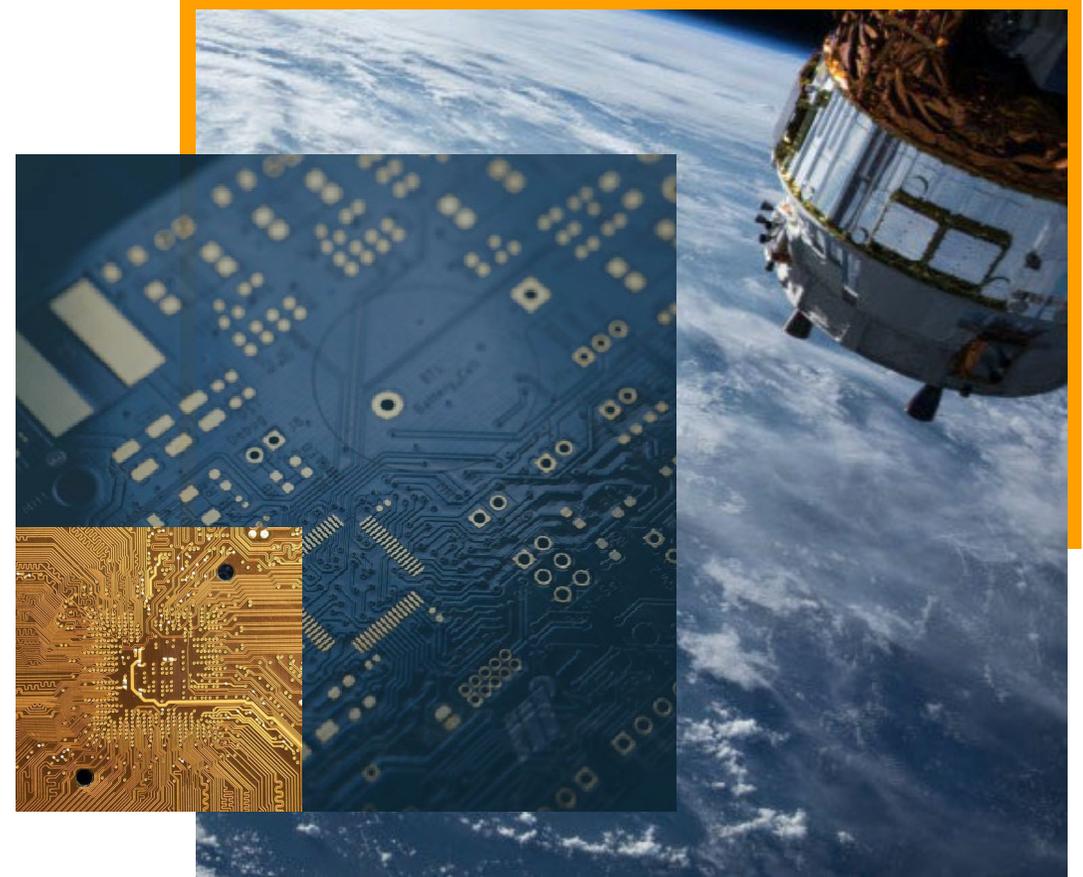
Our Partners



Azure Summit
Technology



Facilities



7309-A GROVE ROAD, FREDERICK, MD:

- > 20,000 sq. ft. Facility
- > 7,500 sq. ft. Class 10,000 ppm Clean Room for Assembly, Test, ESS & Inventory
- > 4,000 sq. ft. Engineering Space
- > 2,800 sq. ft. Office space and Conference rooms
- > 2,500 sq. ft. Machine Shop, Paint Booth, and Random Vibration/Shock Testing
- > 2,200 sq. ft. Communal areas (2 breakrooms, restrooms, and lobby)
- > 1,000 sq. ft. Accounting, Human Resources and Sales & Marketing
- > Components & Sub-Assembly Manufacturing
- > Hybrid Assembly
- > Engineering & Test Departments
- > QA/QC, Sales, Marketing & Executive Offices
- > 3 Conference Rooms (Production, Engineering and S&M)

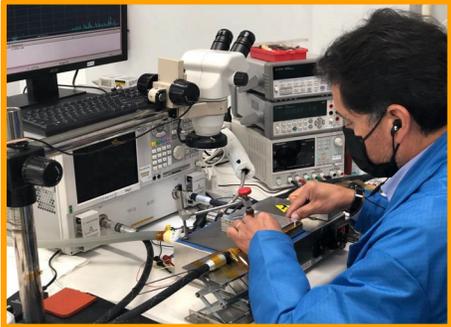
4921 Robert J. Mathews Pkwy, El Dorado Hills, CA:

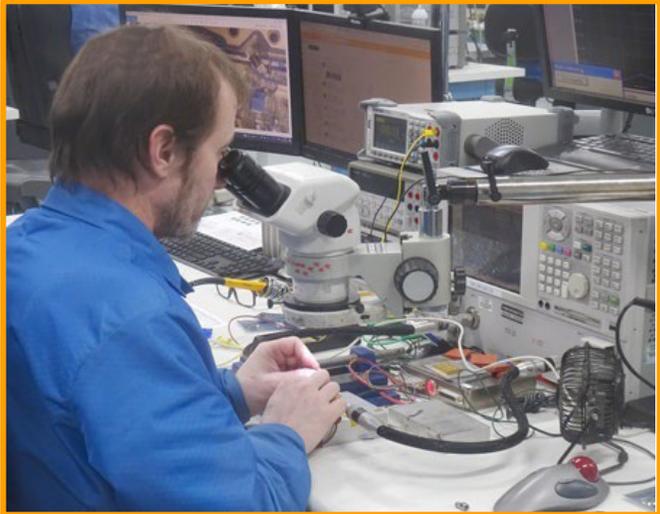
- > 5,100 sq. ft. Facility
- > Components Manufacturing
- > Hybrid Assembly
- > Test and Engineering Departments
- > Production and Quality Departments
- > EOL and Obsolete Aftermarket Manufacturing

East Coast Operations



East Coast Operations





Footer

East Coast Operations



East Coast Operations

Production & Test

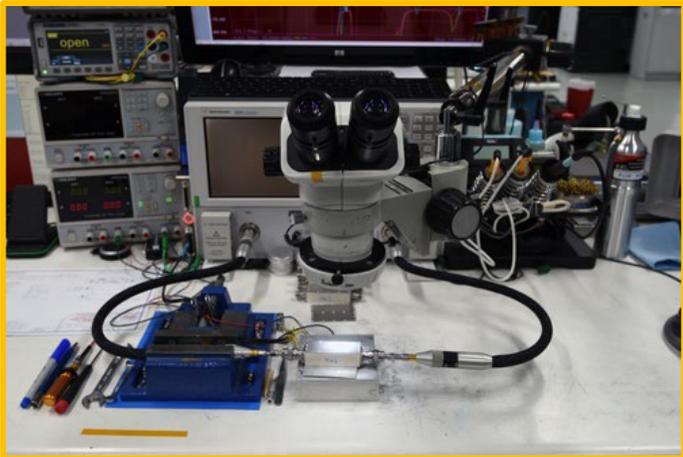
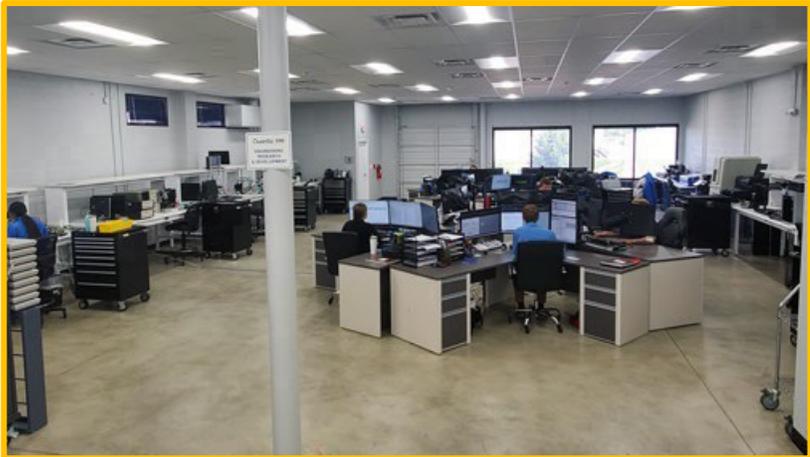
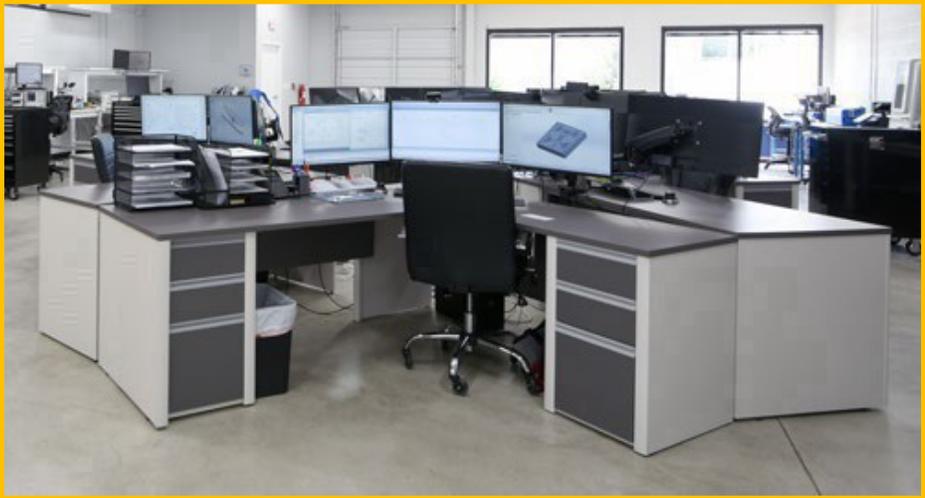
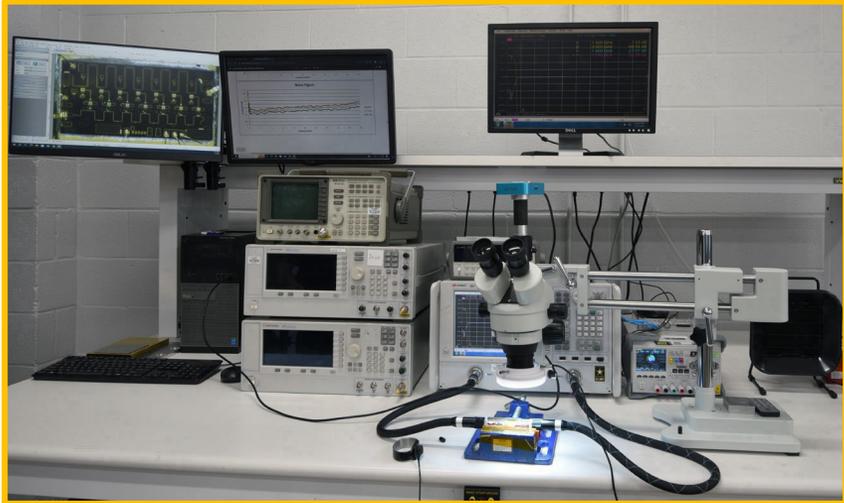


Cycle Chamber & High Power SSPAs



East Coast Operations

Engineering



East Coast Operations



Hermetic Laser Welder



Thermal Shock



Thermal Shock



Random Vibration



UV Curing Light Printer



CO₂ Laser



Hot/Cold Plate



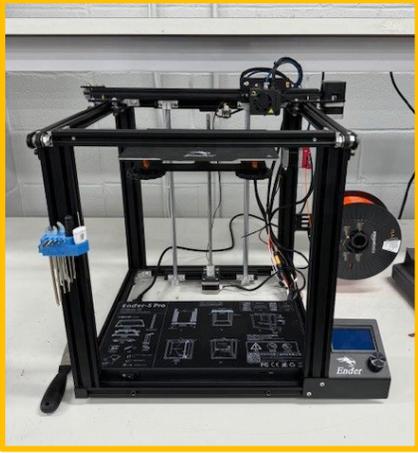
Cycling Chamber



Plasma Cleaner



20 W Fiber Laser Engraver



Ender-5 Pro 3D Printer



Metallurgic Microscope



Hermetic Package Testing



Cleanroom Ovens



X1-Carbon 3D Printer



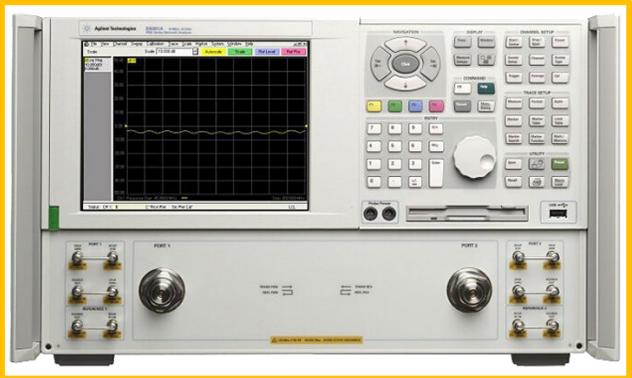
RF Probe Station up to 67 GHz



Shock Testing



High Power Testing



East Coast Operations

Precision Machine Shop



HAAS DT1 CNC Milling Machine



East Coast Operations

Precision Machine Shop



Mazak Nexus 430AI CNC Milling Machine



Network Analyzers:

- > (1) HP 30 kHz-6 GHz Network Analyzer
- > (1) Keysight 9 kHz - 20 GHz PNA
- > (4) Agilent 10 MHz - 20 GHz PNA
- > (7) Agilent 10 MHz - 40 GHz PNA
- > (1) Agilent 10 MHz - 43.5 GHz PNA
- > (8) Agilent 10 MHz - 50 GHz PNA
- > (1) Agilent 10 MHz - 67 GHz PNA
- > (5) Agilent 10 MHz - 40 GHz E-CAL
- > (1) Agilent 10 MHz - 50 GHz E-CAL
- > (1) Agilent 10 MHz - 67 GHz E-CAL

Noise Figure Meter:

- > (2) Agilent N8975A (10 MHz to 26.5 GHz) & Downconverter (40 GHz)
- > (1) HP 8970B
- > (4) Keysight Noise Sources

Oscilloscopes:

- > (1) Tektronix TDS210
- > (1) Tektronix TDS2024C
- > (1) Agilent DS06034A
- > (1) Keysight DSOS204A
- > (6) Agilent DSOX3034A
- > (2) LeCroy WaveJet 314A
- > (1) Agilent MSOX3034A
- > (1) Keysight MXK608A

- > (1) Siglent D5D6000
- > (1) Keysight EXR258A

Power Amplifiers:

- > (1) Varian TWTA 7 – 18 GHz, 20 W
- > (1) CPI TWT Amplifier (2-8 & 8-18 GHz) 300 W CW
- > (1) MC (3 - 3.5 GHz) 100 W
- > (1) MC (800 – 1000 MHz) 100 W
- > (1) MC (20 - 512 MHz) 25 - 50 W
- > (1) MC (20-500 MHz) 100 W
- > (1) Spanawave GT-1051B Power Amplifier, 10 MHz to 50 GHz, 0.5 W to 40 GHz, 0.4 V to 50 GHz
- > (2) Ophir (20 - 1000 MHz & 700 - 6000 MHz) 120W High Power Amplifier
- > (1) Mini-Circuits 2.4 - 2.5GHz, 1kW Generator

Power Meter:

- > (5) Gigatronics 8541B/C, 8542C
- > (4) Agilent E4418B
- > (1) Agilent N1913A
- > (3) Spanawave 8652A

Pulse/Signal Generators:

- > (1) Anritsu MG3692B Signal Generator
- > (1) HP 8015A Pulse Generator
- > (1) HP 8013B Pulse Generator
- > (1) HP 8012B Pulse Generator

- > (1) HP 8350B Sweep Oscillator
- > (1) HP Arbitrary Waveform Generator 33120A
- > (1) HP 8664A Signal Generator
- > (2) Wavetek Model 801 Pulse Generator
- > (2) HP 8673D Signal Generator
- > (2) Agilent 33522A Arbitrary Waveform Generator
- > (4) Keysight E8257A PSG Analog Signal Generator
- > (6) Keysight E8257D PSG Analog Signal Generator
- > (1) Siglent SDG1062X & Siglent SDG1032X Waveform Generators
- > (2) Berkely Nucleonics Pulse Generator
- > (2) Agilent 8257C PSG Analog Signal Generator
- > (2) Agilent N5183A Signal Generator (100 kHz - 6 GHz)
- > (2) Agilent N5181A Signal Generator (100 kHz – 6 GHz)

Spectrum Analyzer:

- > (1) HP 8593E Spectrum Analyzer (9kHz to 22 GHz)
- > (2) HP E4448A PSA Spectrum Analyzer (3 Hz - 50 GHz)
- > (2) Keysight N9030A Spectrum Analyzer (3 Hz - 50 GHz)
- > (2) Keysight 8563E Spectrum Analyzer (9 kHz - 26.5 GHz)

Manufacturing Equipment:

- > (1) Everbeing C-6 Analytical Probe Station, up to 67 GHz
- > (1) ESPEC TSE-12A Thermal Shock Chamber
- > (1) TSE-11-A ESPEC Thermal Shock Chamber
- > (1) ESPEC BTZ-175 Thermal Cycle Chamber
- > (1) LAB SD10 Shock Tower
- > (1) JEN410 IR Reflow Oven
- > (3) Thermo Electron Oven
- > (2) Anatech Plasma Cleaner
- > (2) Metallurgical Microscope MT1000
- > (1) Westbond 7KE Ribbon Bonder
- > (1) Westbond 7KE Ball Bonder
- > (1) Westbond 7473E Die Bonder
- > (4) Westbond 747677E-79 Convertible Wire Bonder
- > (1) Westbond 7476E-79 Wedge Wire Bonder
- > (1) Westbond 747630E-79 Wedge Wire Bonder
- > (1) Westbond 7400A Wedge Wire Bonder
- > (2) Westbond Bond Pull Center
- > (1) Dage Bond Puller / Die Shear
- > (3) HAAS DT1 CNC Milling Machine
- > (1) Mazak Nexus 430A-II CNC Milling Machine
- > (1) Mazak VC-EZ16 CNC Milling Machine
- > (1) Hardinge Turret Lathe
- > (1) Di-Acro Power Shear

- > (12) ESS Thermal Hot/Cold Plates
- > (1) Ling Dynamic V650 Random Vibration Setup
- > (1) Varian Helium Leak Tester
- > (1) HANS-G20 20 W Fiber Laser
- > (1) Hermetic Package Tester
- > (1) UV Curing Light Printer
- > (1) Hermetic Laser Welder
- > (1) KH-3020 CO2 Laser
- > (1) Remco Machined Parts Cleaner
- > (1) Bambu Lab X1-Carbon 3D Printer
- > (1) Ender-5 Pro 3D Printer
- > (6) Quincy Lab Oven

Software:

- > Keysight - Genesys S/Filter Synthesis and Simulation
- > Ansys – HFSS, High Frequency Structural Simulator
- > Exact MAX – MRP/ERP Software
- > AutoCAD
- > Altium Designer
- > Microwave Office
- > SolidWorks
- > Gibbs Cam
- > Draftsight
- > Agilent Vee Pro Test Software

Standards:

- > ISO9001
- > MIL-STD-454
- > MIL-STD-202
- > MIL-STD-883
- > MIL-E-5400
- > MIL-I-45208
- > IPC-A-610 Workmanship Standard
- > IPC-J-STD-001 Soldering Standard
- > MIL-STD-45662 Calibration Standard
- > AS9100

West Coast Operations





West Coast Operations





Network & Spectrum Analyzers:

- > (1) Agilent N5230C PNA Network Analyzer 10 MHz - 20 GHz (Mixer Option)
- > (8) HP 8757D Scalar Analyzers
- > (1) HP 8720D Network Analyzer (50 MHz – 20 GHz)
- > (1) HP 8565E Spectrum Analyzer (50 GHz)
- > (1) HP 8592L Spectrum Analyzer
- > (2) Keysight E8364B PNA Network Analyzer (10 MHz - 50 GHz)
- > (1) Agilent N4693 E-CAL (10 MHz - 50 GHz)
- > (1) R&S FSR40N Spectrum Analyzer

Noise Figure Meters:

- > (1) Keysight N4002A Noise Source
- > (1) HP 8975A Noise Meter

Power Meters:

- > (3) HP EPM-442 Power Meter
- > (1) HP E4412A Power Meter
- > (1) HP 437B Power Meter
- > (1) HP 437A Power Meter

Pulse/Signal Generators:

- > (1) HP 83731B Signal Generator
- > (4) HP 83620A Signal Generator
- > (1) HP 8013B Pulse Generator

- > (6) HP 83620A Sweep Generators
- > (1) HP 83650 Signal Generator
- > (1) Agilent E8257 Signal Generator
- > (1) Agilent 83732 Signal Generator
- > (1) HP 83623 Sweeper
- > (1) Agilent 83640 Sweep Generator
- > (1) HP 83620 Sweeper

Oscilloscopes:

- > (1) Keysight MSO-X-3054A 500 MHz BW
- > (1) Tektronix 2246 100 MHz BW
- > (1) Rigol DS1202Z-E
- > (2) Agilent DSOX3034A

Manufacturing Equipment:

- > (1) ESDEC TSE-12A Thermal Shock Chamber
- > (1) Blue M Stable Therm Oven
- > (1) Branson 821D Ultrasonic Cleaner
- > (2) UNITEK Gap Welders
- > (1) Anatech Plasma Cleaner/Etcher
- > (3) Westbond 7400A Wedge Bonders
- > (1) Westbond 8850 Bond Pull Center
- > (3) Westbond 1200A Die Attach Stations
- > (1) Westbond 8850 Ball Bonder
- > (1) Westbond 7600B Ribbon Bonder
- > (7) ESS Chroma Hot and Cold Plates
- > (1) Cycle Chamber

Software:

- > Keysight - Genesys S/Filter Synthesis and Simulation
- > Ansys – HFSS, High Frequency Structural Simulator
- > Exact MAX – MRP/ERP Software
- > AutoCAD 2005
- > AutoCAD 2013
- > Gibbs Cam

Standards:

- > ISO9001
- > MIL-STD-454
- > MIL-STD-202
- > MIL-STD-883
- > MIL-E-5400
- > MIL-I-45208
- > IPC-A-610 Workmanship Standard
- > IPC-J-STD-001 Soldering Standard
- > MIL-STD-45662 Calibration Standard
- > AS9100

- > Equipment Calibration - ISO 17025 Standard with traceability to NIST
- > Trained and Experienced ITAR/Export Administrator
- > Export Compliance Manual
- > AES (Automated Export System) certified export staff
- > Long Term Relationships with both DDTC and SNAP-R Personnel
- > NIST SP 800-171 and DFARS 252.204-7012 Compliant
- > U.S. Government Registration Numbers:
 - Cage Code: 05XQ0 (East Coast)
 - Cage Code: 71A34 (West Coast)
 - DUNS Number: 829998517
 - SAM (CCR) Registration: 1998E211401
 - Federal Tax ID (TIN): 52-1756966
 - DDTC Registrant Code: M16913
- > Able to support DoD contracts



5216 Chairmans Ct., Suite 103
Frederick, Maryland 21703
(301) 696-9740 Office
(301) 829-3729 Fax
www.IQRCORP.COM

International Quality Registrars (IQR) Corporation
here with certifies that

Planar Monolithics Industries, Inc.

Headquarters: 7309-A Grove Road, Frederick, MD 21704 USA

Additional Site Location(s): No, Yes, See Appendix A for additional information

has demonstrated a Quality Management System (QMS) which
conforms with the requirements of the standard:

ISO 9001:2015

Quality Management System - Requirements

The organization's QMS has been evaluated
according to the International Quality Registrars (IQR)
Corporation QMS certification scheme for the following scope:

**“Design, Development and Manufacture of Microwave Frequency Components,
Sub-Systems and Systems, and Contract Manufacturing Services”**

This QMS certification is subject to periodic audits by
International Quality Registrars (IQR) Corporation

This QMS certificate remains the property of International Quality Registrars Corporation and shall be returned immediately upon request, and is subject to being suspended or withdrawn where the organization fails to comply with the terms and conditions of the signed Registration Assessment Proposal and Agreement. An electronic or printed certificate can be authenticated on-line in accordance with IQR's procedure documented at www.IQRCORP.com

Registration No.: 18-120804.1Q
Client ID: PM109
Cert. Expiration Date: 09/15/2027
Cert. Issued Date: 09/15/2024

Last Cert. Revision Date: 09/15/2024
Initial Cert. Issue Date: 02/24/09
Sheet No.: 1 of 2


IQR QMS Certification Signature



FORM IQR-2510 Rev. C



United States Department of State
Bureau of Political-Military Affairs
Directorate of Defense Trade Controls
Washington, D.C. 20522-0112

SEBASTIAN PALACIO
Vice-President
Planar Monolithics Industries Inc.
7309-A Grove Road
Frederick, MD 21704

2024-07-16

**For a copy of our ITAR Registration, please
contact our Sales Department at
sales@quanticpmi.com**

Any person who engages in the United States in the business of manufacturing or exporting or temporarily importing defense articles or furnishing defense services is required to register and keep that registration current with this office pursuant to the Arms Export Control Act (AECA) and the International Traffic in Arms Regulations (ITAR). A registration is current if the registration is unexpired and has accurate and up-to-date information.

Registration is a precondition to submitting an application for an export license or other approval from the Directorate of Defense Trade Controls (DDTC) or to use ITAR exemptions but does not confer any export rights or privileges. In addition, if you also plan to engage in brokering activities pursuant to ITAR Part 129, you must register as a broker with DDTC.

As the senior officer empowered to sign the registration statement, you should ensure that your organization maintains records regarding: 1) The senior officer listed on the registration who will oversee the compliance program and be responsible for designating the direct employees who will serve as “empowered officials” for their organization; and 2) The qualified, direct employees who will serve as “empowered officials,” listed by name, position, business unit, phone and fax numbers and email addresses. Please note that third parties (i.e., individuals who are not direct employees, such as consultants, subcontractors, or outside counsel, for example) cannot serve as “empowered officials.”

Also, ITAR Section 122.5 requires you to maintain records concerning your registration and the manufacture, acquisition, and disposition of defense articles; the provision of defense services; and information on political contributions, fees, or commissions furnished or obtained, as required by ITAR Part 130. Records maintained shall be available at all times for inspection and copying by DTCC or Customs officials. To ensure such records are maintained in accordance with ITAR Section 122.5, the organization should provide appropriate training on AECA and ITAR requirements to all employees who will be performing recordkeeping functions and ensure they comply with the ITAR. Ramifications for the failure to comply may include shipment delay and/or shipment seizure by Customs and Border Protection, loss of export privileges, and/or criminal or civil penalties.

Further, if your organization has foreign-person employees, including officers and senior managers, your organization must first obtain a license or other approval before providing such foreign-person employees with access to any ITAR-controlled technical data. It is also prohibited to provide defense services or export defense articles to subsidiaries/affiliates located in proscribed countries under ITAR Section 126.1 (for example, the People's Republic of China, North Korea, Syria, etc.). You should caution your organization's employees not to discuss the substance of ITAR-controlled information with foreign-person employees without first obtaining a license or other approval from DDTC.

You may refer to the DDTC website for a Compliance Guide at <http://www.pmdtc.state.gov/> and then click on ITAR Compliance tab, next click on How to Comply tab. The DDTC website also includes a copy of the ITAR, explanations of export licensing procedures, how to submit a license application, country sanctions, individuals / companies debarred by the Department of State, and other export matters. The website also includes procedures for requesting a commodity jurisdiction determination (ITAR Section 120.4) should you have doubt as to whether an article, services, or data is covered by the ITAR Part 121 (the U.S. Munitions List).

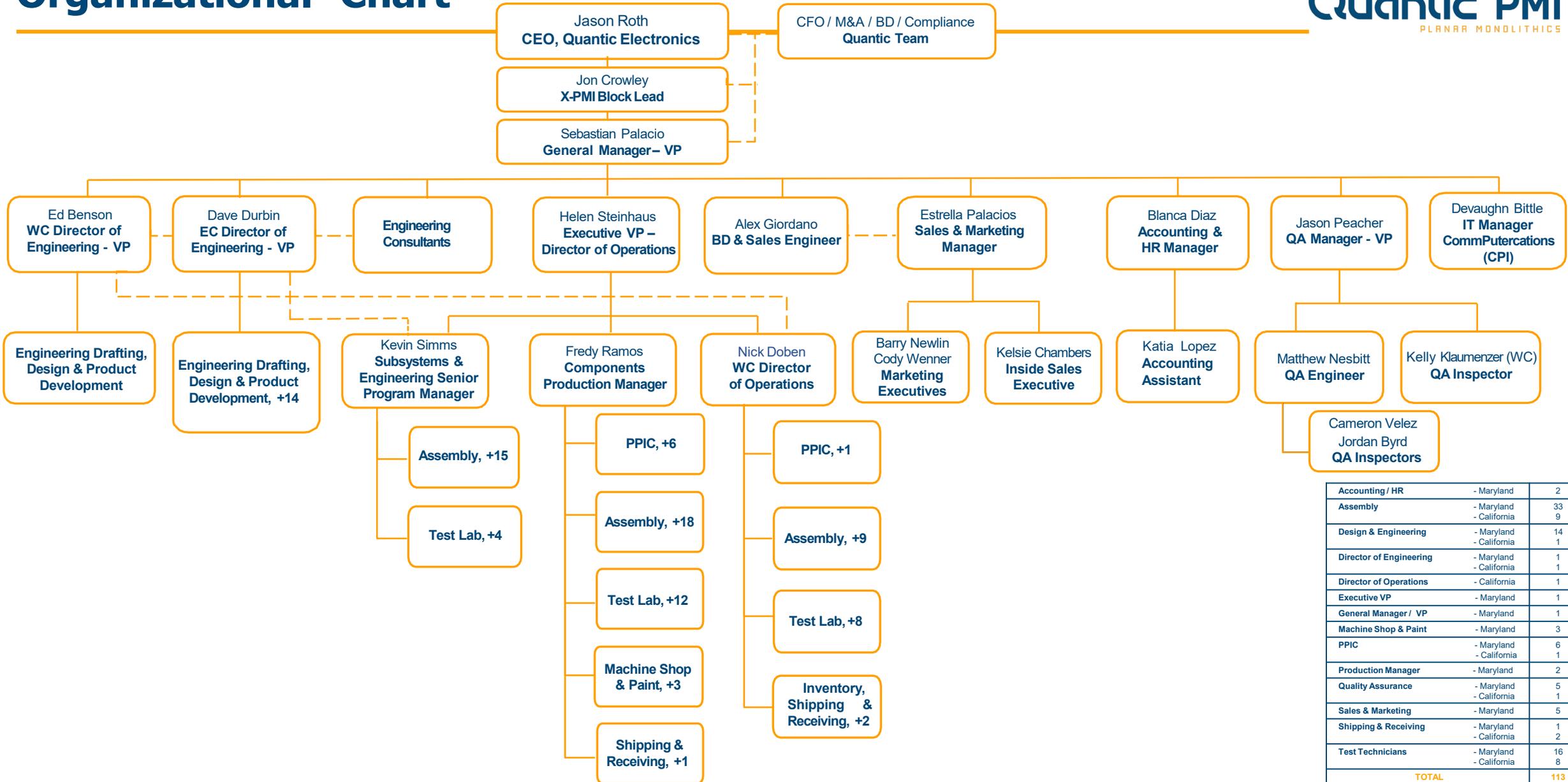
You may submit your organization's registration renewal up to 60 days before the registration expiration date. At latest, your registration must be received at least 30 days prior to the expiration date to avoid a lapse in registration. You should also ensure your organization's Registration is current before applying for export licenses or other approvals. Also, if appropriate, DTCC requests you to keep your registration information current by submitting amendment requests via DECCOS Registration system.

For general registration related questions, please contact the DDTC Response Team at 202-663-1282 or by email at DDTCCustomerService@state.gov. For questions related to this matter, please contact Teletha Thomas at 202-632-2153.

Sincerely,

Daniel Cook
Chief, Registration, Compliance, & Analysis
Office of Defense Trade Controls Compliance

Organizational Chart



Accounting / HR	- Maryland	2
Assembly	- Maryland	33
	- California	9
Design & Engineering	- Maryland	14
	- California	1
Director of Engineering	- Maryland	1
	- California	1
Director of Operations	- California	1
Executive VP	- Maryland	1
General Manager / VP	- Maryland	1
Machine Shop & Paint	- Maryland	3
PPIC	- Maryland	6
	- California	1
Production Manager	- Maryland	2
Quality Assurance	- Maryland	5
	- California	1
Sales & Marketing	- Maryland	5
Shipping & Receiving	- Maryland	1
	- California	2
Test Technicians	- Maryland	16
	- California	8
TOTAL		113

Thank You!

