



# Key Markets & Products

**MACOM**<sup>™</sup>  
*Partners from RF to Light*

# MACOM Markets and Applications



## Wireless Networking and Communication

- > Wireless Infrastructure
- > Wireless Backhaul
- > Wireless LAN (WiFi)
- > SatCom/VSAT



## Optical Networking

- > Data Center
- > Metro
- > Client Side
- > Line Side
- > FTTx



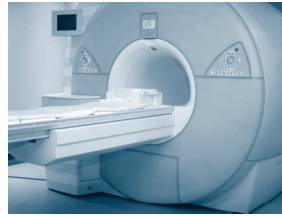
## RF Energy

- > Automotive Ignition
- > Industrial Cooking
- > Industrial Drying
- > Medical Tumor Ablation
- > Plasma Street Lighting



## Aerospace & Defense

- > Communication
- > EW
- > Hi-Rel and Space
- > Radar
- > MACOM in Active Antennas
- > Build-to-Specification



## Industrial, Scientific and Medical

- > Industrial
- > Test and Measurement
- > Healthcare



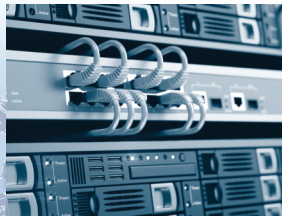
## Wired Broadband

- > CATV Head-End
- > CATV HFC Infrastructure
- > CATV/Satellite Set Top Box
- > FTTx Infrastructure



## Broadcast Video

- > Cameras
- > Distribution Amplifiers
- > Format Conversion
- > Monitors
- > Routers and Switches



## Enterprise Solutions

- > Backplane Connectivity
- > Packet Switchers and Routers
- > Storage Area Networks
- > Transport Networks/OTN



## Surveillance

- > Cameras
- > DVRs

MACOM Technology Solutions, Inc. is a leading supplier of high performance analog RF, microwave, millimeterwave and photonic semiconductor products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies (GaN, GaAs, InP, SiGe, HMIC and Silicon) and products, MACOM serves diverse markets, including high speed optical, satellite, radar, wired & wireless networks, automotive, industrial, medical, and mobile devices. A pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

- > Over 60 years of RF & Microwave history
- > Global organization of skilled engineers
- > Innovative products with expert support
- > Unrivalled expertise and versatile manufacturing capabilities
- > Strong patent and IP positions

## Technologies

- > Gallium Nitride (GaN)
- > Silicon Photonics (SiPh)
- > Silicon Germanium (SiGe)
- > Indium Phosphide (InP)
- > Gallium Arsenide (GaAs)
- > Silicon (Si)
- > Aluminium Gallium Arsenide (AlGaAs)
- > Heterolithic Microwave Integrated Circuit (HMIC)
- > Self Aligning Etched Facet Technology (SAEFT<sup>™</sup>)

## Broad Catalog of over 4,000 Parts across 40 Product Lines



### RF Power Products

- > RF Power Transistors:
  - GaN on Si
  - Silicon Bipolar
  - Silicon MOSFET
- > GaN and GaAs Device Bias Sequencer
- > RF Power: Silicon Bipolar Pallet and Modules

### Optoelectronics

- > Laser and Modulator Drivers
- > Transimpedance Amplifiers (TIAs)
- > Clock & Data Recovery
- > Optical Post Amplifiers
- > LED/Laser Drivers for Display

### Photonic Solutions

- > Fabry-Perot Lasers
- > Distributed Feedback Lasers
- > Photonic Integrated Circuits (PICs)
- > Laser Photonic Integrated Circuits (L-PIC<sup>™</sup>)

### Optical Sub-Assemblies

- > Transmitter Optical Sub-Assembly (TOSA)
- > Receiver Optical Sub-Assembly (ROSA)

### Amplifiers

- > Active Splitters
- > Amplifier Gain Blocks
- > CATV Amplifiers
- > Distributed Amplifiers
- > FTTx Amplifiers
- > Hybrid Amplifiers
- > Linear Amplifiers
- > Low Noise Amplifiers
- > Power Amplifiers
- > Variable Gain Amplifiers

### Diodes

- > Multiplier Step Recovery Diodes
- > PIN Limiter Diodes
- > PIN Switch and Attenuator Diodes
- > Schottky Mixer and Detector Diodes
- > Varactor Tuning Diodes

### Crosspoints and Signal Conditioners

- > Crosspoint Switches, Signal
- > Conditioners/Redrivers

### SDI Products

- > SDI Cable Drivers
- > SDI Cable Equalizers
- > SDI Reclockers

### Frequency Conversion

- > Frequency Multipliers
- > Hybrid Mixers
- > Mixers
- > Receivers
- > Transceivers
- > Up Converters

### Control Products

- > CMOS Switch Drivers
- > Digital Attenuators
- > Digital Phase Shifters
- > IQ Modulators / Demodulators
- > Limiters
- > Power Detectors
- > Switches
- > Voltage Variable Attenuators
- > Phase Detectors

### Passives

- > Bias Networks
- > Couplers
- > Filters / Diplexers
- > Power Dividers / Combiners
- > Transformers / Baluns
- > Resistor Products
- > Inductor Products
- > Capacitors

### HDcctv Devices

- > HDcctv Cable Drivers
- > HDcctv Cable Equalizers
- > HDcctv Reclockers

### Frequency Generation

- > Voltage Controlled Oscillators
- > NTLT GaAs Comb Generators

### Communications Processors

- > Wide Area Networks
- > Voice (VoIP) Processors
- > Carrier Convergence Processors
- > Enterprise Voice and Data Processors

### Hi-Rel Components

- > Current Regulators
- > Schottky, Switching & Zener Diode Chips
- > Silicon Switching Diodes
- > Ultrafast Rectifier Diodes
- > Zener & TC Zener Diodes
- > Power Transistors



Additional product information can be found on our website at:

**[www.macom.com](http://www.macom.com)**

Contact our worldwide sales offices, authorized representatives, and industry-leading distributors to request samples, test boards, and application support.

All contacts are listed on our website at:

**[www.macom.com/purchases](http://www.macom.com/purchases)**

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