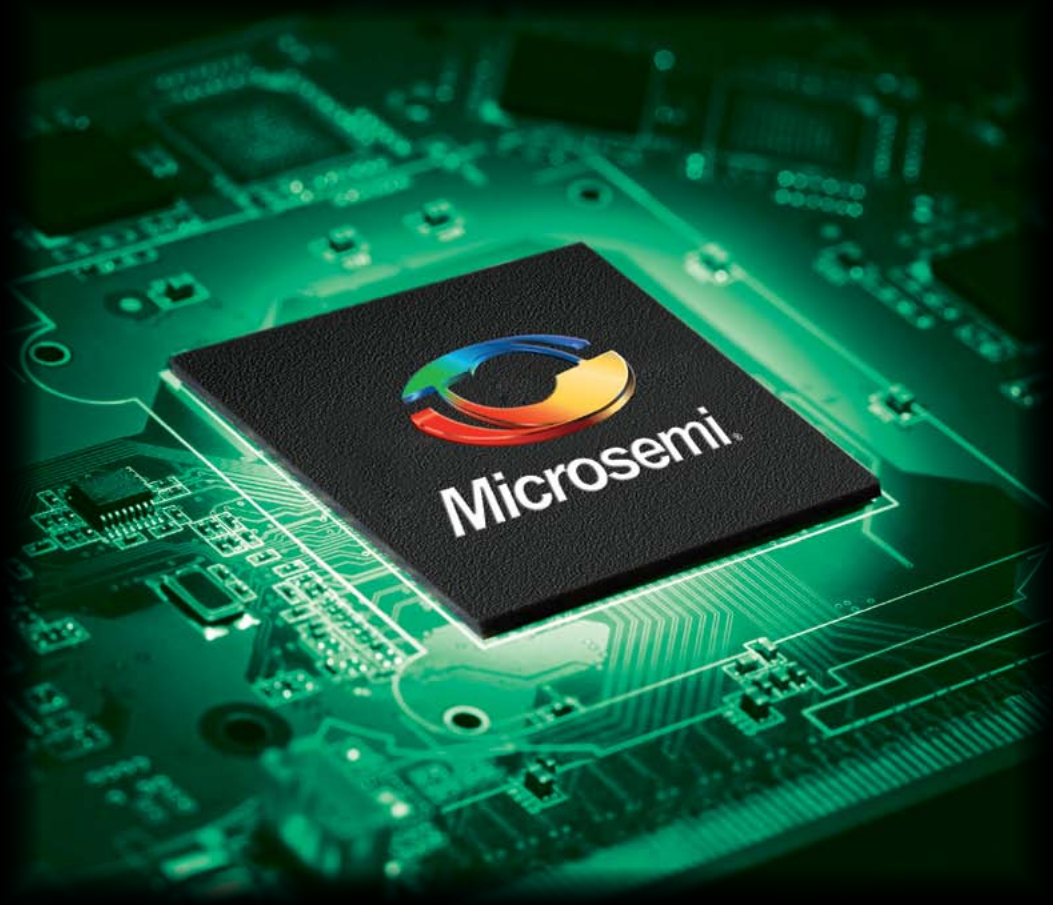


# Microsemi Product Line-up

2013-2014



# Power Matters.™

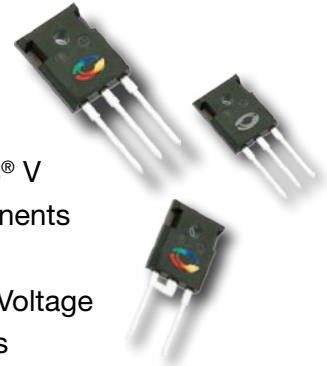
## ASIC, FPGA & SoC

- Mixed-Signal ASIC Product Design & Development
- IGLOO<sup>®</sup>2 FPGAs
- SmartFusion<sup>®</sup>2 SoC FPGAs
- SmartFusion SoC FPGAs
- IGLOO FPGAs
- IGLOOe FPGAs
- IGLOO nano FPGAs
- IGLOO Plus FPGAs
- ProASIC<sup>®</sup>3 FPGAs
- ProASIC3e FPGAs
- ProASIC3 nano FPGAs
- ProASIC3L FPGAs
- Fusion<sup>®</sup> FPGAs
- Extended Temp. Fusion FPGAs
- RTAX<sup>®</sup> SL FPGAs
- RTAX DSP FPGAs
- RT ProASIC3 FPGAs
- RTSX-SU FPGAs
- Axcelerator FPGAs
- SX-A FPGAs
- eX FPGAs
- MX FPGAs



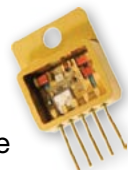
## Discretes

- Diode Products & Arrays
- IGBTs
- Linear MOSFETs
- Low Voltage Power MOS<sup>®</sup> V
- Medical Discrete Components
- MOSFETs & FREDFETs
- Non-Magnetic Transient Voltage Suppressors (TVS) Arrays
- Powermite Schottky Rectifiers
- Powermite Transient Voltage Suppressors (TVS)
- Powermite Ultra Fast Rectifiers
- Powermite Zener Diodes
- PowerMOS<sup>®</sup> 8 MOSFETs & FREDFETs
- SiC Schottky Diodes
- Solar Array Diodes
- Ultra Fast Recovery Diodes



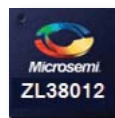
## High Reliability

- ASIC - Mixed-Signal ASIC Product Design & Development
- DC-DC Converters
- Linear & Switching Regulators
- Memory, Processors & Storage
- Military Bi-polar Junction Transistors
- Military Rectifier Diodes
- Military Schottky Diodes
- Military Zener Diodes
- Modules
- Power Management
- Power Military MOSFETs
- Power Supplies
- RadHard Power MOSFETs
- Relays & Contactors
- RF Products
- RT Series FPGAs



## Integrated Circuits

- Ambient Light Sensors
- Displays and Drivers
  - LED Driver Modules
  - LED Drivers & Controllers
- Linear & Switching Regulators
  - Isolated Controllers
  - Low Dropout Regulators
  - Step Down Controllers
  - Step Down Regulators
- Microphone Preamplifiers
- Power-over-Ethernet (PoE) ICs
  - PoE PSE ICs and Modules
  - PoE PD ICs and Modules
  - IdealPoE™ Diode Bridge
- Serial Interface ICs
- Surge Protection
- Timing and Synchronization Products
  - Clock Generation/Synthesis
  - Fanout Buffers
  - IEEE 1588-2008 Synchronization
  - Optical Transport Network (OTN) PLLs
  - SONET/SDH/PDH PLLs
  - Synchronous Ethernet (SyncE) PLLs
- Ultra Low-Power Radio
  - Sub-GHz Radio Transceivers
  - Implantable Medical Transceivers
- Voice and Telecom Networking Products
  - Analog Cross-point Switches
  - Caller ID
  - Digital Network Interface (DNIC)
  - Dual Tone Multiple Frequency (DTMF) Solutions
  - Hands-free Voice Processing
  - Integrated Digital Phone
  - Line Care Software
  - Primary Rate Transmission
  - Signal Processing
  - TDM/TSI Switches
  - VE790 High Performance Programmable Chipset with Line Test
  - VE792 Next Generation Carrier Chipset (NGCC)



- VE880 Single and Dual Channel FXS and FXO Line Interfaces
- VE890 Integrated FXS Line Interfaces
- VE950 General Purpose Ringing SLIC
- VeriVoice Test Suite Software
- Voice Echo Cancellation
- ZL880 Enhanced Dual Channel Wideband FXS Line Interfaces

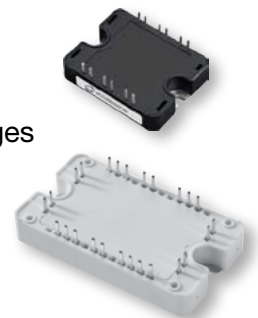
## Memory, Processors & Storage

- Multi-chip Package (MCP)
- DDR SDRAM
- DDR2 SDRAM
- DDR3 SDRAM
- EEPROM
- Embedded Flash
- Mixed Memory
- SDRAM
- SRAM
- SSRAM
- Memory for TI-Sitara-OMAP-DaVinci
- 68000Processors
- PowerPC
- SSD BGA
- 2.5-inch Solid State Disk Drives

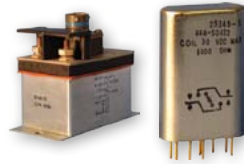


## Modules & Hybrids

- Application Specific Power Modules
- Custom Modules
- DC-DC Converters
- Diode Power Modules
- IGBT Power Modules
- Industry Standard Packages
- MOSFETs & CoolMOS®
- SiC Power Modules
- Standard Power Modules
- Thyristor Power Modules



## Relays & Contactors



## RF, Microwave & Millimeter Wave

### • Amplifiers

- Equalizer Amplifiers
- GaN Amplifiers
- High Dynamic Range Amplifiers
- Limiting Amplifiers
- Low Noise & Medium Power Amplifiers
- Low Phase Noise Amplifier
- SMT & SMP Amplifiers
- Variable Gain Amplifiers



### • Beam Lead PIN Diodes for Broadband

- Mesa Beam Lead PIN
- Planar Beam Lead PIN



### • Comb Generators

### • Limiters

- Coaxial Limiters
- RF Limiter Components
- Receiver Protection Circuits
- Surface Mount Limiter Modules

### • Multipliers

### • Multi-Function Assemblies

### • Passive Devices

- Hybrid Binary Capacitors
- Hybrid Spiral Bias Elements
- MMSM Capacitors



### • PIN Diodes

- GC4200 Series Small Signal/High Speed
- GC4400 Series Large Signal
- GC4700 Series Limiter PIN Diodes
- GC4800 Series Planar Beam Lead PINs
- MMSM PIN Diodes
- MRI Application Matrix for RF PIN Diodes
- Power PIN Diodes for Switching and Attenuation



- Power PIN Diodes for LF/HF/VHF/UHF Switching and Attenuation
- RF Diode & Control Components
- SM Series Ceramic MELF PINs
- SM Series RoHS and MRI Models

### • Power Transistor Products

- Broadcast/TV & Linear
- General Purpose, Small Signal and Microwave
- HF/VHF/UHF Communications
- Pulsed Avionics
- Pulsed Primary Radar



### • Schottky Diodes

- Schottky Mixer Diodes
- GaAs Schottky Barrier and Flip Chip Diodes



### • Switches

- RF SPST through SP6T Absorptive and Reflective Switches

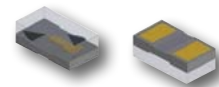
### • Varactor Diodes

- GaAs Varactor Diodes
- GaAs Hyperabrupt Junction Diodes
- MMSM Varactor Diodes
- Tuning Varactors



### • WLAN Solutions

- Front End Modules (FEMs)
- Low Noise Amplifiers (LNAs)
- Power Amplifiers (PAs)

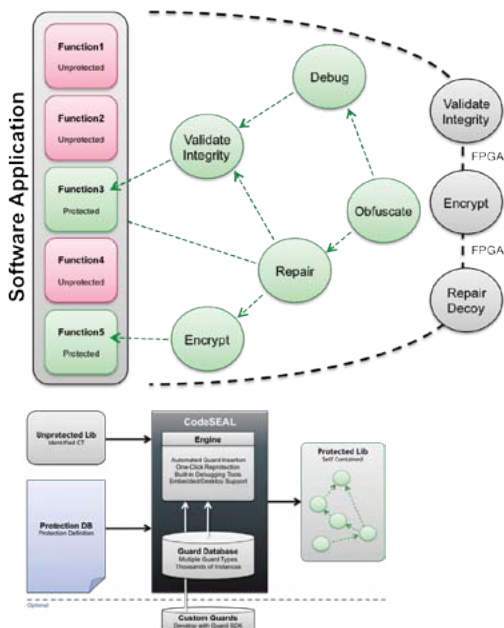


## Services

- Best-of-breed Anti-tamper Solutions
- Custom Design Services & Solutions
- Custom Power Supplies
- Mixed-Signal ASIC Product Design & Development
- Module & Hybrid Design
- Professional Engineering Services

## Software & IP

- Anti-Tamper & Information Assurance Products
- CodeSEAL™
- EnforcIT® IP cores
- EnforcIT Shared Memory Protection Suite
- EnforcIT Cryptography Suite
- EnforcIT Firmware Protection Suite
- WhiteboxCRYPTO®



## Systems & Sub-Systems

- PoE Midspans



- Power Supplies
  - Complete Power Sub-systems
  - Power Supplies



- Security Screeners
  - AllClear® Touchless Pat-Down
  - MobileScan®



Microsemi is continually adding new products to  
its industry-leading portfolio.

For the most recent updates to our product line  
and for detailed information and specifications,  
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MS8-009-13