

Corporate Overview



- **Global Supplier of Semiconductor & Electronic Systems**
- **Founded 1960.....50 years of success**
- **Nasdaq - MSCC**
- **Specializing in**
 - **System-engineered analog mixed signal integrated circuits**
 - **Power semiconductors & power management / delivery systems**
 - **RF transistors and integrated solutions**
- **Broad portfolio of products.....more than 35,000**
- **1,000's of customers.....Leaders in their fields**
- **\$453 million in sales in 2009, globally dispersed with approximately 30% outside the US**
- **Strong channels to market – distributors, representatives, internal infrastructure**
- **Balanced manufacturing strategy, both internal & external partners**
- **~ 2200 employees, ~73% domestic, ~27% international, ~ 10% engineers**
- **FINANCIALLY STRONG**

Serving Diversified Markets



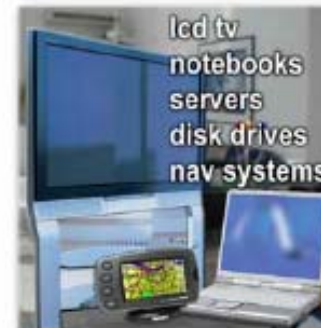
Defense and Security
39%



**Mobile/
Connectivity**
14%



**Commercial
Air/Satellite**
23%



**Notebooks /
LCD TVs / Displays**
8%



Medical
9%



Industrial/Semi Cap
7%

Serving Market Leaders



Defense and Security



Mobile / Connectivity



Commercial Air / Satellite



Notebooks / LCD TV / Display

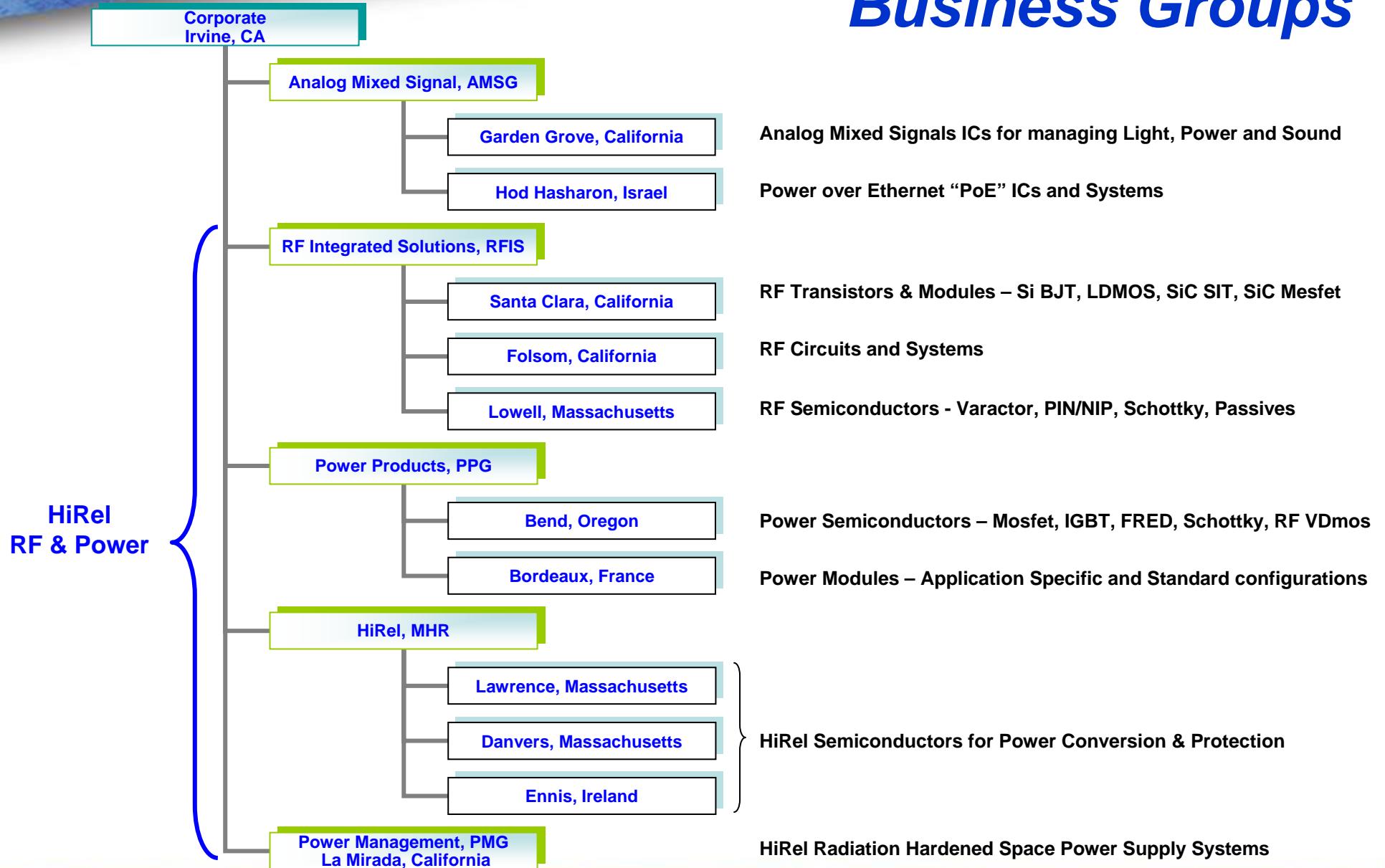


Medical



Industrial / Semi Cap

Business Groups



Analog / Mixed Signal

Expertise in managing Light, Power and Sound with controllers, sensors, drivers, photo detectors, and power amplifiers.

- ***Backlight Controllers*** for lighting LCDs in notebook computers, web browsers, automotive and industrial instrumentation, hand-held equipment, and entertainment systems (LCD TVs.....) (CCFL, EEFL, CFL, LED)

- ***Audio Amplifier products*** for cell phones, PDA's, web tablets and other low power systems.

- ***Wireless LAN power amplifiers*** for WiFi front end modules and VoIP hand held applications (PDA, laptops, IP telephones))



Power over Ethernet (PoE) Solutions

- Pioneer and Market Leader both ICs and systems

- System level power management expertise

- Strong IP portfolio, 16 related patents and 91 pending

- Power Over Ethernet technology allows laptops, IP telephones, webcams, cash registers, data terminals to receive power as well as data over existing LAN cabling



High Reliability RF & Power

Power Conversion, Conditioning, Control

Linear & digital microcircuits, drivers, PWM, op amps, logic array networks, analog control circuits, a variety of discrete devices (NPN, PNP, NPN transistors, quad transistors, MOSFETs, IGBTs), power modules, hybrids, diode arrays, glass rectifiers, and many other products including zeners, transient voltage regulators / suppressors, current limiters, reference diodes, signal diodes, thyristors



RF /Microwave

- RF Power Semiconductors (Si and SiC) used to Receive, Transmit, or Amplify electronic signals
- Circuits, sub-systems, systems from 5 to 100 Ghz
- Limiter, NIP, PIN diodes



Power Management & Delivery

- Custom Power supplies and power conditioning & control units for satellite, airborne, shipboard, and ground based electronics systems
- High reliability relays, remote power controllers, contactors, timers, sensors, flat panel displays, magnetic components, hybrids, thick film substrates, chip scale packages, chip on board



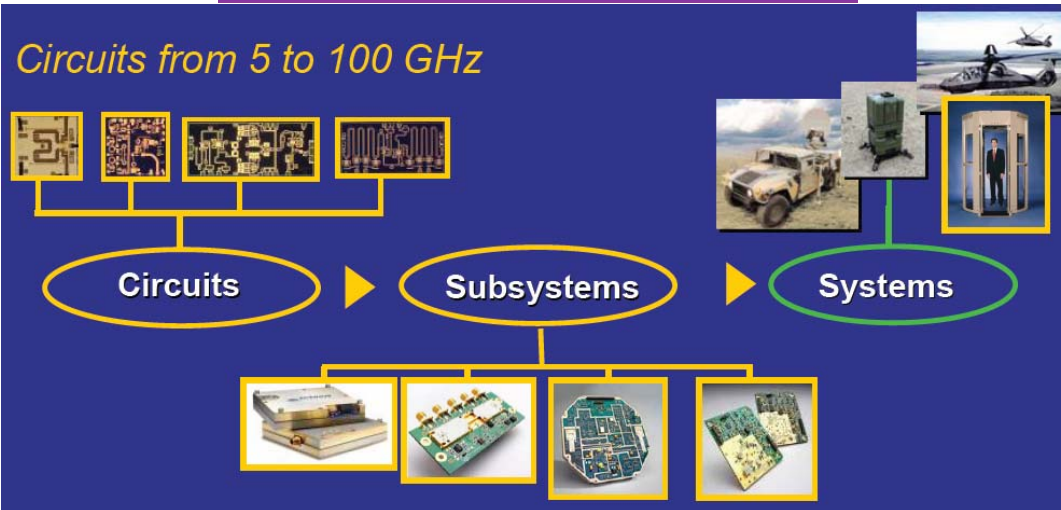
Rad hard & Hi-Rel Screened Products Available



RF Integrated Systems Group

RF Circuits & Systems

Circuits from 5 to 100 GHz



RF Transistors & Modules

Silicon Bipolar

- High Peak Power (1200W)
- Class C Operation
- High Operating Voltage (50V)

Silicon LDMOS

- Linearity and moderate BW
- 28-32V Operating Voltage

Silicon Carbide Bipolar (new technology)

- High Peak Power
- High Power Density
- High Operating Voltage (100V)



Silicon Carbide MESFET (new technology)

- Wide Frequency Bandwidth
- High Gain & Power Density
- High Operating Voltage (60V)

RF Semiconductors & Components

- Varactor devices
- PIN / NIP devices
- Schottky devices
- Power generation devices
- Passive devices

Power Products Group

- ❑ **Patented MOS technology** aimed at high power, high frequency, high efficiency applications.
- ❑ **Expertise in Integration and Customization**
- ❑ **SiC** technology for the future



Switching Discretes

MOSFET: 200-1200V, 4 -175A
 IGBT's : 600-1200V, 8-200A
 Diode : 200-1200V, 5 – 100A



High Freq. VDMOS

2-300MHz
 50 – 300V Operation
 100 – 2,000 Watts
 (parts not to scale)



Power Modules

Standard and Custom
 Mosfet - IGBT - FRED - SiC
 75V-1700V, 10A-750A
 Low profile – high efficiency

High Reliability Group

Avionics / Military / Space Discretes

- SIGNAL / ZENER DIODES
- SCHOTTKY / SiC DIODES
- IGBT
- MOSFETS
- RECTIFIERS
- SCR / THYRISTORS
- TRANSISTORS
- TVS / TSPD / ARRAYS
- HIREL PLASTIC PACKAGES
- MODULES
- DIE & CHIP
- HERMETIC PACKAGES
- JAN, JANTX, JANTXV, JANS
- RAD HARD
- CUSTOM



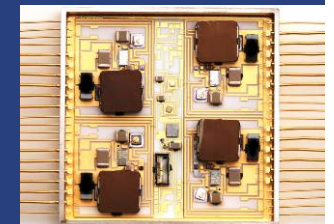
Implantable Medical

- POWER MANAGEMENT SOLUTIONS
- CHIP SCALE PACKAGING
- HIGH VOLTAGE SPECIALISTS
- MOST COMPLETE DISCRETE PORTFOLIO



Hybrids

- POINT-OF-LOAD SWITCHERS (POL)
- LINEAR REGULATORS (ULDO)
- SOLID STATE RELAYS
- CUSTOM



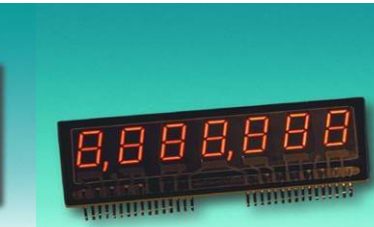
Power Management Group



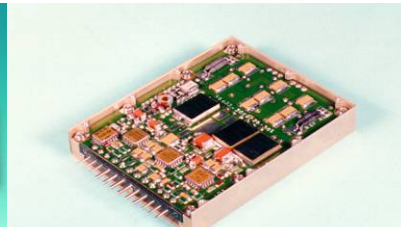
RELAY CONTACTORS



FLAT PANEL DISPLAYS



FLAT PANEL DISPLAYS



RAD-HARD DC/DC MODULES



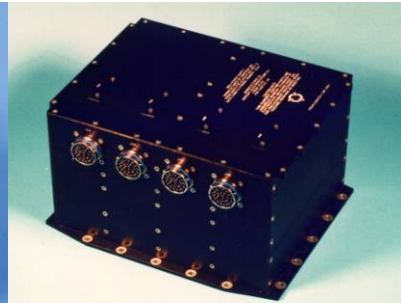
RELAYS



PRESSURE SENSORS



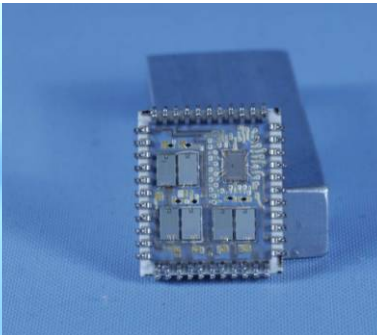
THICK FILM HYBRIDS



RAD-HARD REDUNDANT DC/DC SYS



TIMERS AND SENSORS



CUSTOM THICK FILM HYBRIDS



RAD-HARD POWER SUPPLIES



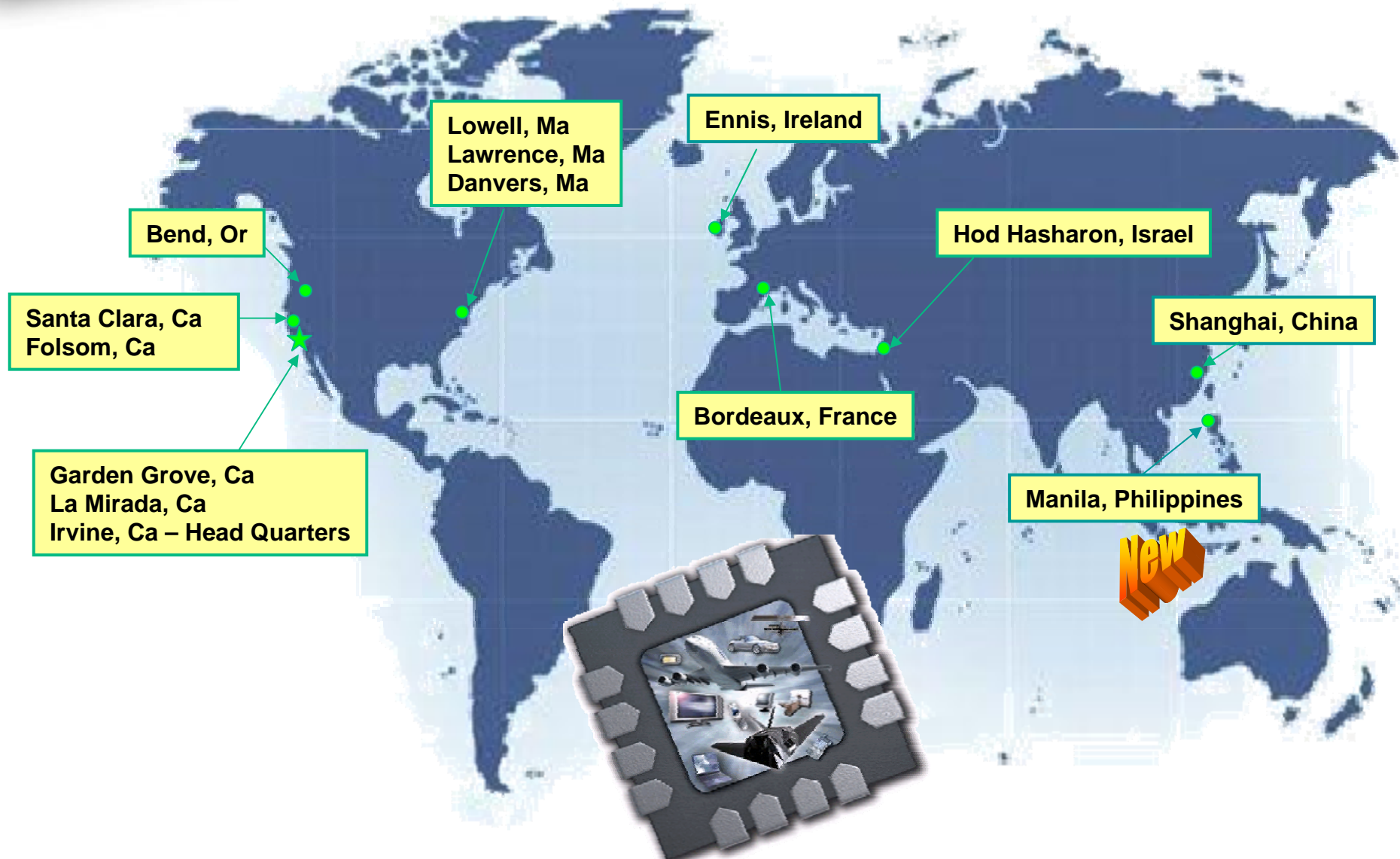
RAD-HARD POWER DISTRIBUTION SYS

Providing High Reliability Radiation Hardened
Space Power Supply System Solutions

Quality Certifications

Quality Certifications	Division
<u>ISO 9001:2008 Cert for Power Products Group</u>	Bend
<u>DSCC JANS</u>	Bend
<u>DSCC MIL-PRF-19500</u>	Bend
<u>ISO 9001:2000 Cert for Power Products Group</u>	Bordeaux
<u>ISO 9001:2000 Cert for RF Integrated Solutions</u>	Folsom
<u>ISO 9001:2000 Cert for Analog Mixed Signal Group</u>	Garden Grove
<u>MIL-PRF-19500</u>	Ireland
<u>Quality Management System to I.S.EN ISO 9001:2000</u>	Ireland
<u>POWERDSINE - IQNET ISO 9001:2000</u>	Israel
<u>POWERDSINE - ISO 9001:2000</u>	Israel
<u>ISO 9001:2000 with AS9100:2004</u>	La Mirada
<u>ISO 9001:2000 with AS9100:2004</u>	Lawrence
<u>JANS Manufacturer VQE-07-014216</u>	Lawrence
<u>Laboratory Suitability VQE-07-014216</u>	Lawrence
<u>Manufacturer VQE-07-014214</u>	Lawrence
<u>Quality System to I.S.EN ISO 9001:2000</u>	Santa Clara
<u>DSCC JANS</u>	Scottsdale
<u>DSCC MIL-PRF-19500</u>	Scottsdale
<u>ISO 9001:2000 with AS9100:2004</u>	Scottsdale

Major Worldwide Sites



Expanding thru Strategic Acquisitions

2009 Acquisitions



Electro Module, Inc. and its wholly-owned subsidiary, Babcock, Inc.

Leading manufacturer of high-reliability power supplies, relays and flat panel displays and supplies. Subsequently renamed Power Management Group”

Defense and Security business of Endwave Corporation.

Radio frequency modules that enable the transmission, reception and processing of high frequency signals. Subsequently renamed RF Integrated Solutions (“RFIS”) and merged with other RF groups

Nexsem, Inc.

High-voltage DC to DC conversion devices for applications such as in LCD televisions, set top boxes, notebooks and netbooks. Merged with (“AMSG”)

Commitment to the Environment

Microsemi Environmental Goals and Objectives



- Conduct operations in a manner that protects the environment, employees and community.
- Continually reducing environmental risks throughout its operations by identifying and measuring environmental risks and by setting performance standards, which are commensurate with best practices.
- Minimize the use of hazardous chemicals and reduce hazardous waste generation whenever feasible.
- Comply with all laws and regulations applicable to its operation and work within the framework of an Environmental Management System.
- Provide EHS training and instruction at all levels to motivate and to ensure that proper procedures are followed.
- Encourage environmental responsibility from suppliers and sub-contractors.
- Communicate this policy to all employees and other interested parties.

Microsemi management is committed to supporting environmental protection (air, water and land) and employee health and safety.

Commitment to Quality

Focusing on Total **Customer Satisfaction**



Continually Improving our products, services and processes.

Encouraging and expecting the **Proactive Involvement** of all employees

The Right Partner

*Global
Presence*

*Serving Market
Leaders*

*Financially
Strong*

*Broad Product
Range*

*Technology
Leadership*

*Commitment
to Customer
Satisfaction*

Commitment to Stakeholders

