
COMPANY PRESENTATION

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MICOREL is a representative organization of Electronic components Manufacturers for AEROSPACE, DEFENCE, and Telecom sectors.

Our Mission is to promote to Customers, at competitive prices, Hi-Tech & Hi-Quality products and to establish with Partners a long term relationship.

Our Sales forces have an average of 20 years experience in these sectors with excellent reputation along with most important Institutions and Industries

Specialized consulting services for High Reliability (HI-REL) Electrical, Electronic, Electromechanical (EEE) components to Military Standards (MIL/SMD, ESA/ESCC, GSFC etc...) through Environmental, Screening, Reliability analysis and Hardness to Radiations compliance an testing in specialized Microelectronics Labs
We are active in Italy as well as France, Spain, Greece, Israel through our Sub-Agents network in the following sectors:

- Defence
- Space
- Telecom
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<th>Company</th>
<th>Products &amp; Services</th>
<th>Industry</th>
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| XTREME Semiconductor | - Hi-Rel Parts Procurement & Obsolescence Management  
- Wafer Lot Qualification (WLQ/WAT) and screening services  
- Chip Recovery “ChiPR” Product  
- Counterfeit analysis | MILITARY SPACE |
| United Monolithic Semiconductors | - GaAs and GaN MMICs manufacturing  
- Foundry services up to 77 Ghz | MILITARY SPACE  
TLC |
| MEC | - MMICs and Hybrid circuit design and characterization  
- Multichip modules (MCM / SiP)  
- RF Amplifiers, RF Signal Processing  
- Modeling | MILITARY SPACE  
TLC |
| Protec GmbH | European Distributor for High Rel components  
- Transistor SEMICOA  
- Diodes SMC  
- PLL, Op Amp IMST  
- Rad Hard memory Bae System  
- Optical Receiver and Transmitter Ultra Communication | MILITARY SPACE  
AEROSPACE |

Microrel is also offering a consulting service for European Community tender
GaAN and GaN MMICS
From DC up to 110GHz

- Power Amplifiers up to 200W
- Very Low Noise Amplifiers
- Mixed signal functions
- Multichip modules

Technology Platform
• GaAs
• GaN
• SiGe
• Plastic & Hermetic packages

RF designers
~ 200 Products
Foundry services

Design
- Tools (PDK) and support
- Foundry training
- Multi Project Wafers
- Early access mode

Technology
- pHEMT and HBT GaAs
- HEMT GaN
- Schottky
- MESFET

Services
- Wafer and die
- On wafer test
- Known Good Die
- Packaging

Comprehensive support
• Advanced Design techniques for MMICs and Hybrid circuits design for space, military and telecom

• Advanced Techniques for active device modeling for specific applications

• Characterization and measurements of active devices and circuits

• Implementation of prototype hybrid circuits and test jig for MMIC evaluation

• Measurement Set-up design for Small- and Large-Signal Characterizations
• High Reliability Products….
   Ceramic, metal can, monolithic, MCM’s, Plastic Packages

• Complete Manufacturing Capabilities….
   MIL-PRF-38535 QML Certified

• XTREME Semiconductor Certified EOL Product….
   Risk Mitigation against Counterfeit Products

• Chip Recovery “ChiPR” Product….
   Form, Fit, Functional Replacement for Obsolete Products
XTREME Semiconductor

"The Leader in After Market Product Support"

Chip Recovery

"ChiPR" Process

1. Start with existing OCM component in undesired package
2. Disassemble package and extract the chip/die
3. Re-assemble the chip/die into the required package configuration

XTREME Semiconductor Solutions....

- High Reliability Products....
  - Ceramic, metal can, monolithic, MCM's, Plastic Packages
Transistors JAN up to JANS
Also available with 100krad High and Low Dose Tested

Rad Hard Digital Memory
PROMs, SRAM, SDRAM, FPGAs, FiFo, C-Ram, PCI Bridge

Optical Receiver & Transmitter
up to 12.5GBps / 4xRx & 4Tx in one Part

Diodes for Avionic, Medical, Industrial applications

PLL, I/O, SPI, ADC, OpAmp, Level Shifter, Band Gap, DAC
Thank You for your Attention

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