

DuraMAR 2000 Series Solutions for Tactical Network Centric Mobility

DIGITAL TECHNOLOGIES FOR A BETTER WORLD
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DuraMAR 2000 Series Solutions for Network Centric Mobility



Eurotech Group Products for Tactical and Defense Applications

- High reliability OEM modules and system components
- Rugged DuraCOR integrated central units
- DuraNET and DuraMAR networking routers, switches
- Versatile DuraVIS displays for military applications
- Zypad wrist worn wearable computing
- Cluster and grid supercomputers
- ODM systems



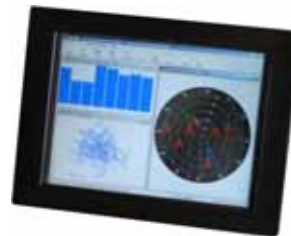
OEM Modules
PXA and x86



DuraCOR
central units



DuraNET
Switches/Routers



DuraVIS
displays



Zypad wearable
computing



Cluster and Grid
Supercomputers

Eurotech Solution – Value Proposition

- **Faster project completion – using standard high-quality and MIL-certified COTS product**
- **Protect your investment – 5 to 15 product lifetime management**
- **Reduced downtime – extended operating temperature, rugged construction, structural heat dissipation, shock protection**
- **High integration – cost, size and power consumption advantage**
- **Reasonable NRE for modifications – standard architectures support easy personalization with custom features**
- **Guaranteed compatibility and performance – designed to work with with Eurotech and third party systems**



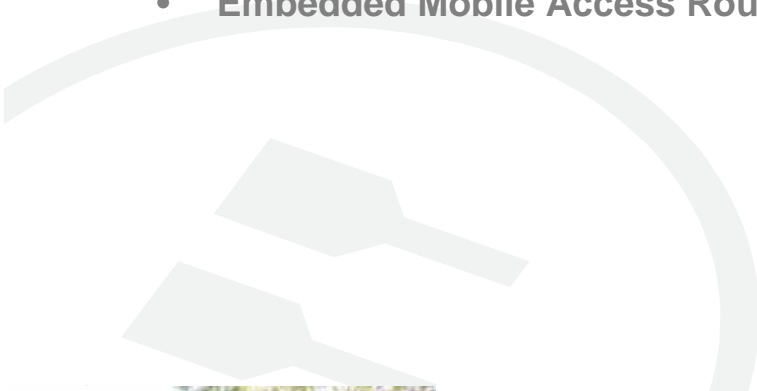
DuraMAR 2000 Series

Mobile Access Router Product Philosophy

- Ready off-the-shelf solution for seamless Mobile IP
- Fully integrated device – router, interfaces, power supply
- Interfaces to Eurotech rugged DuraCOR controllers
- **Versatile configurations:**
 1. Standalone CISCO MAR , MARC module from 3220
 2. CISCO 3220 based MAR with communications controller
 - Tactical radio with high speed USB
 3. Embedded Mobile Access Router
 - Tactical radio – serial and USB
 - TETRA or satellite radio
- **Modular architecture**
- **New communication technologies easy to adopt**
- **Upgradeable in HW and SW**
- **Qualified for military applications**

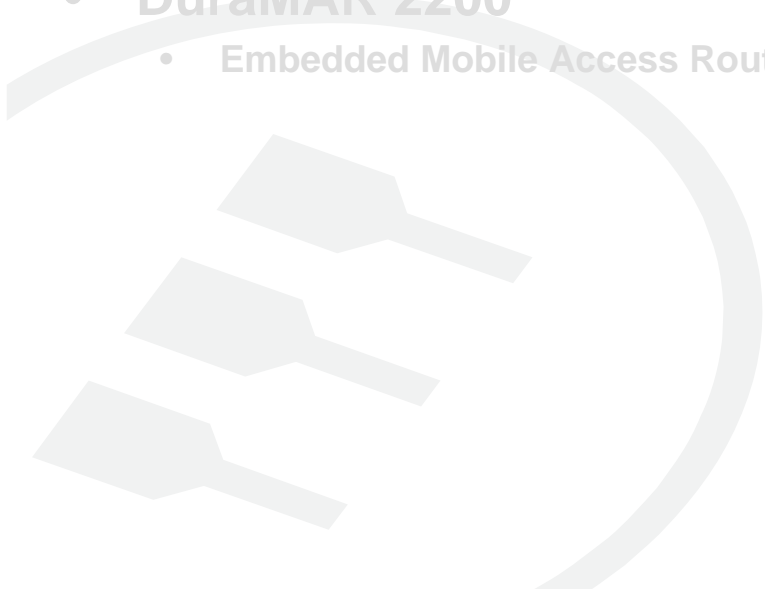
DuraMAR 2000 Series Mobile Access Router Product Matrix

- **DuraMAR 2100**
 - CISCO 3200 based Mobile Access Router
- **DuraMAR 2150**
 - CISCO 3200 based Mobile Access Router
 - Eurotech communications controller
- **DuraMAR 2200**
 - Embedded Mobile Access Router



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 - Eurotech communications controller
- DuraMAR 2200
 - Embedded Mobile Access Router



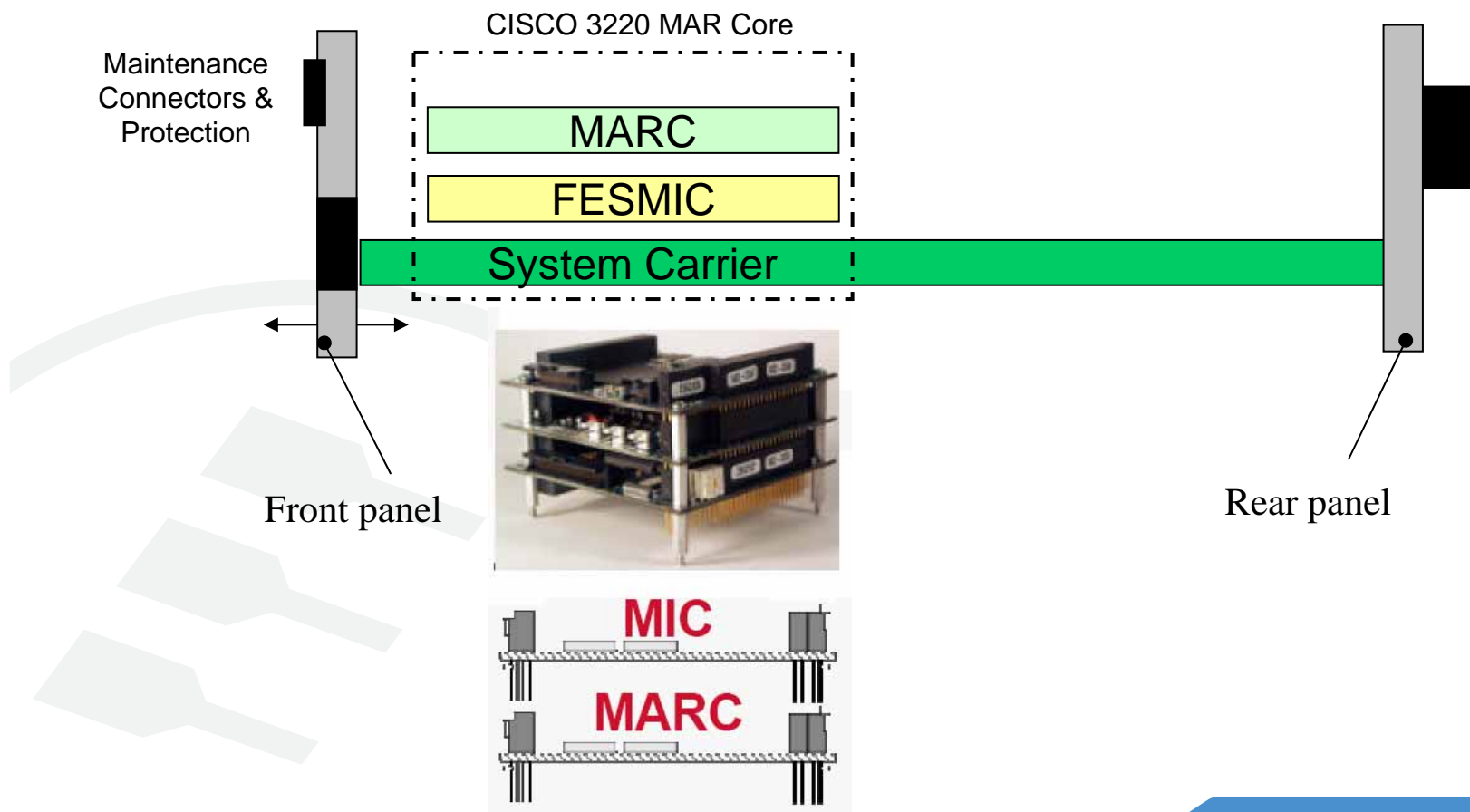
DuraMAR 2100 Product Highlights

- **CISCO IOS - Advanced IP services & interoperability**
- **Rugged implementation of CISCO MAR**
 - 3220 MARC
 - 3220 FESMIC
 - Standard 3220 ports to external devices
- **Supports use of external wireless terminals**
 - 3 x 10/100Mbit Ethernet
 - 1 x Serial ports
- **-40 to +85C operating temperature**
- **Isolated military power supply**
- **Rugged enclosure and MIL-connectors**
- **MIL-STD-461/810 and 1275 qualified**

DuraMAR 2100 Structure

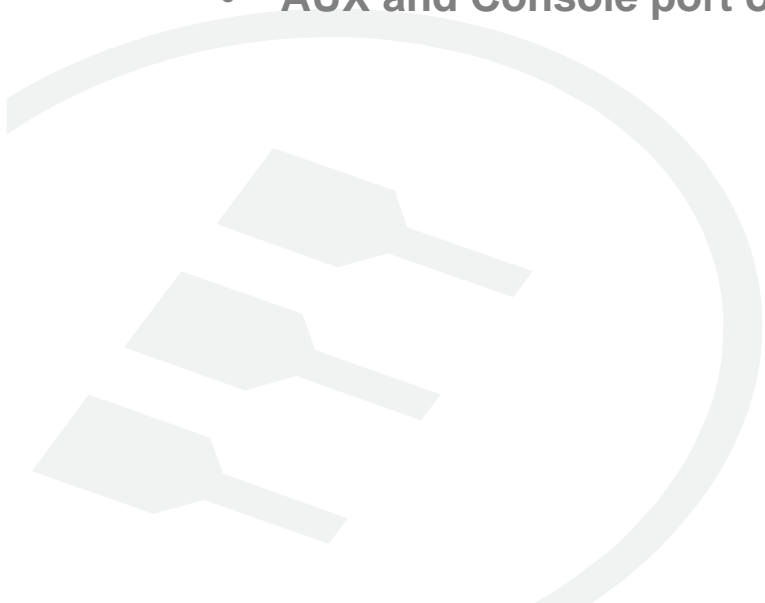
Front Side
(Maintenance)

Rear Side
(Field)



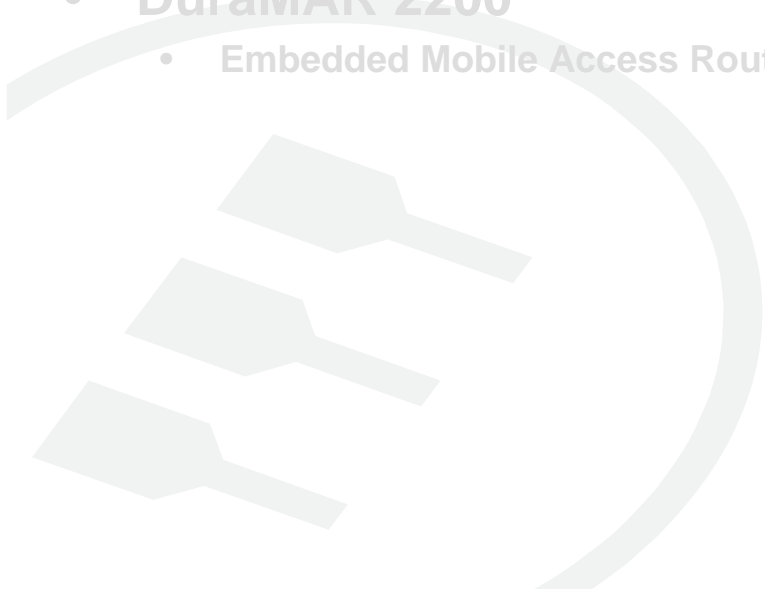
DuraMAR 2100 System interfaces

- **Power**
 - 8 to 36Vdc military class isolated power supply
- **Ethernet**
 - 3 x 10/100Mbit Ethernet ports MARC and FESMIC
- **Serial**
 - Asynchronous RS232 serial port from CISCO MARC
- **Utility**
 - AUX and Console port of MARC



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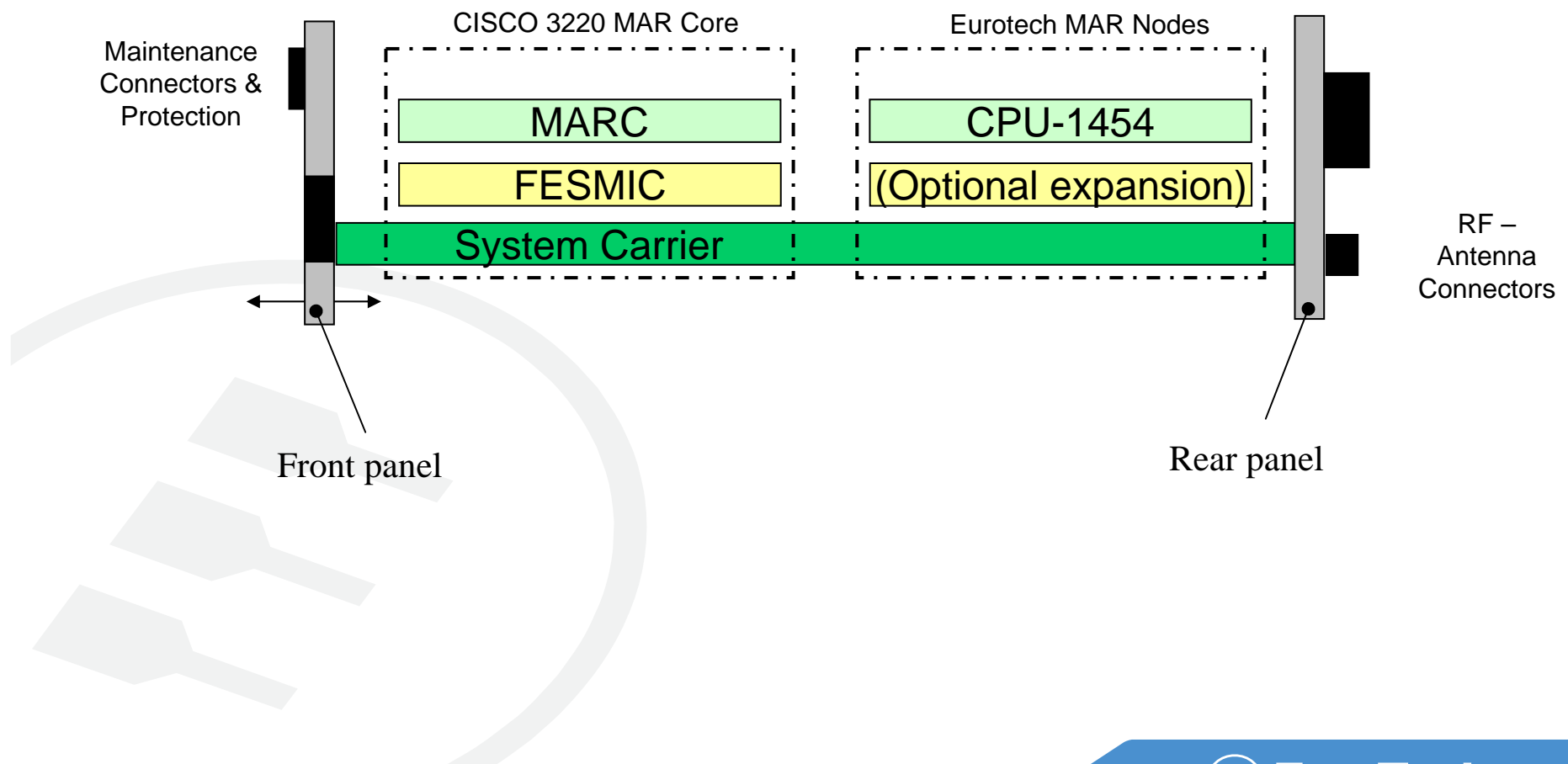
DuraMAR 2150 Product Highlights

- **Rugged implementation of CISCO MAR**
 - 3220 MARC and FESMIC
- **External device connectivity**
 - 1 x 10/100Mbit Ethernet, 1 x Serial port
- **Embedded communications controller**
 - USB 1.1 or USB2.0 to 3220 MAR – Ethernet connection
 - Optional remote diagnostics and monitoring port
- **-40 to +85C operating temperature range**
- **Isolated military power supply**
- **MIL-STD-461/810 and 1275 qualified**

DuraMAR 2150 Structure

Front Side
(Maintenance)

Rear Side
(Field)

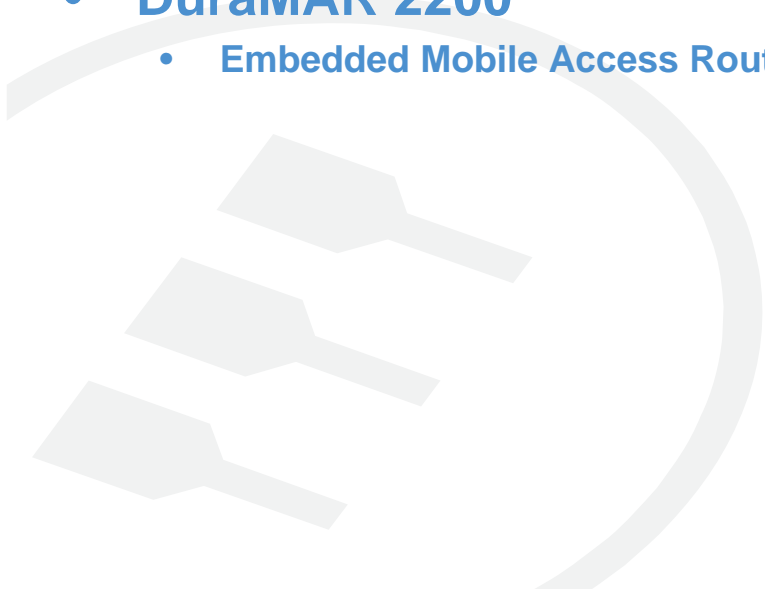


DuraMAR 2150 System interfaces

- **Power**
 - 8 to 36Vdc military class isolated power supply
- **Ethernet**
 - 2 x 10/100Mbit Ethernet – MARC module ports
- **Communication – (connected to FESMIC)**
 - USB for tactical radio interfacing
- **Serial**
 - Asynchronous RS232 serial ports from MARC
 - Optional remote diagnostics and monitoring port
- **Utility**
 - AUX and Console port of MARC
 - USB1.1 port for configuration and set-up

DuraMAR 2000 Series Mobile Access Router Product Matrix

- DuraMAR 2100
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- **DuraMAR 2200**
 - **Embedded Mobile Access Router**



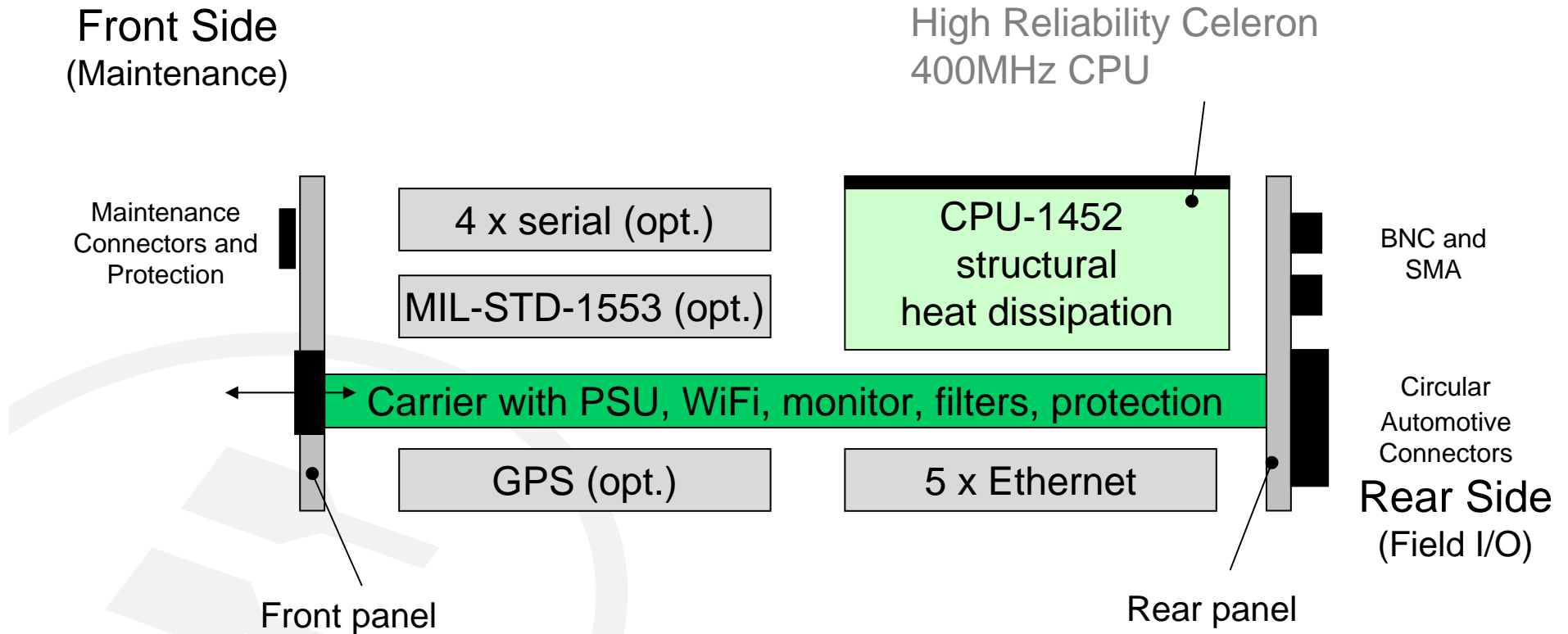
DuraMAR 2200 Product Highlights

- **Embedded software MAR implementation**
 - Linux with networking software
 - Open X86 PC controller core
- **External device connectivity**
 - 5 x 10/100Mbit Ethernet, 2 x Serial ports
- **Communication interfaces**
 - Tactical radio – serial or USB interface
 - TETRA or satellite modem
 - 802.11 WiFi (Optional)
 - MIL-STD-1553 (Optional)
- **-40 to +85C operating temperature range**
- **Vehicle class power supply**
- **Qualified for military vehicle installation**

DuraMAR 2200 MAR Implementation

- VPN and encrypted tunnels
- Configurable communication path selection
- Path health monitoring
- Seamless and transparent switchover between wired or wireless communication paths
- Link aggregation
- Policy routing of traffic
- DHCP/DNS services
- GPS data stream redirection

DuraMAR 2200 Structure



DuraMAR 2200 System interfaces

- **Power**
 - 8 to 36Vdc military class isolated power supply
- **Ethernet**
 - 2 to 5 independent 10/100Mbit Ethernet, 1 x Gigabit Ethernet
- **Wireless**
 - Optional 802.11 WiFi
 - Optional 12-channel GPS
- **Serial**
 - 2 to 8 Asynchronous RS232 serial ports
- **Utility**
 - USB 1.1 for configuration and set-up

DuraCORTM Product Overview

DuraCOR Series Rugged Central Units

- +12/24V and 28V avionics and vehicle installations
- 1GHz Celeron M, 1.4GHz Pentium M and 1.6GHz ATOM Q4/08
- Internal monitoring and diagnostics system
- -40 to +70/85C operating temperature
- Structural heat dissipation
- Flash Disk-on-Module for OS, application and storage
- Serial, USB, Video, keyboard PS/2, Gbit/10/100Mbit Ethernet
- Application specific – expansion CAN, Video, Analog I/O, 1553b



Your expertise lies in THE APPLICATION

**Reality:
70% of RYO embedded programs
fail and never get to market**



**Eurotech is an outsourced,
“application-ready” embedded-computer company
that can be strategically deployed as your
“Virtual Design” Solutions House**



ODM – Advantage Proposal

“It all adds up!”

- **Combine technologies from multiple sources**
 - Eurotech system technology
 - Customers electronics or subsystem
- **Reduced design and financial risk**
- **Accelerated project completion – increased focusing**
- **Possibility to increase integration and reduce size**
- **Overall cost optimization :**
 - Development and certification
 - Production and quality
 - Service and maintenance
 - Lifecycle management
- **Product differentiation strengthens competitiveness**
- **Higher availability and easier maintenance**



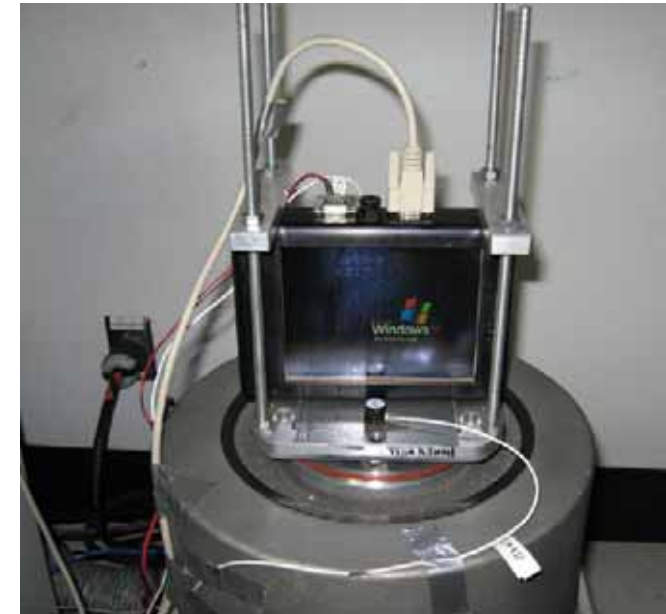
ODM – Application Specific System Capabilities

- **Custom board design and production**
 - Communication and networking
 - Positioning, I/O and power supply design
 - Video and audio processing
- **System integration**
 - Electronics integration, cabling and connectors
 - Thermal, mechanical and enclosure design
- **Adaptation of standard systems**
 - Custom connector and I/O
 - Peripheral I/O functionality
 - System expansion
- **Full custom design and development**
- **Certification and approvals**
- **Service and maintenance planning**



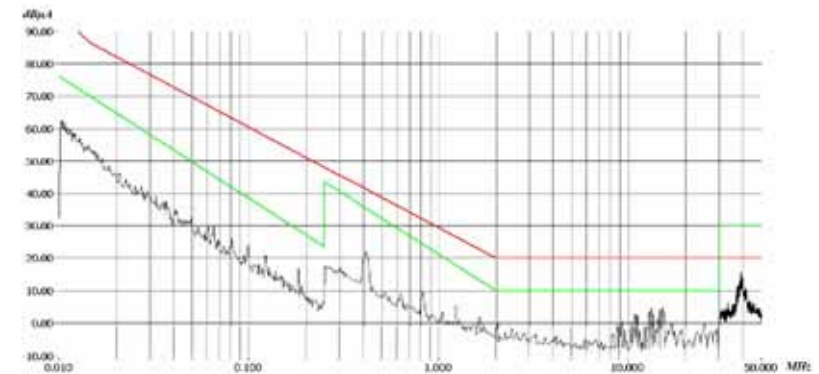
Certification and Compliance - Guarantee of Success

- **ISO 9000:2001** **Quality program**
- **MIL-STD-810F** **Environmental and Shock and Vibration**
- **MIL-STD-704** **Avionics EMC**
- **MIL-STD-1275** **Military vehicle EMC**
- **MIL-STD-461** **Generic Military EMC Emissions , Immunity**

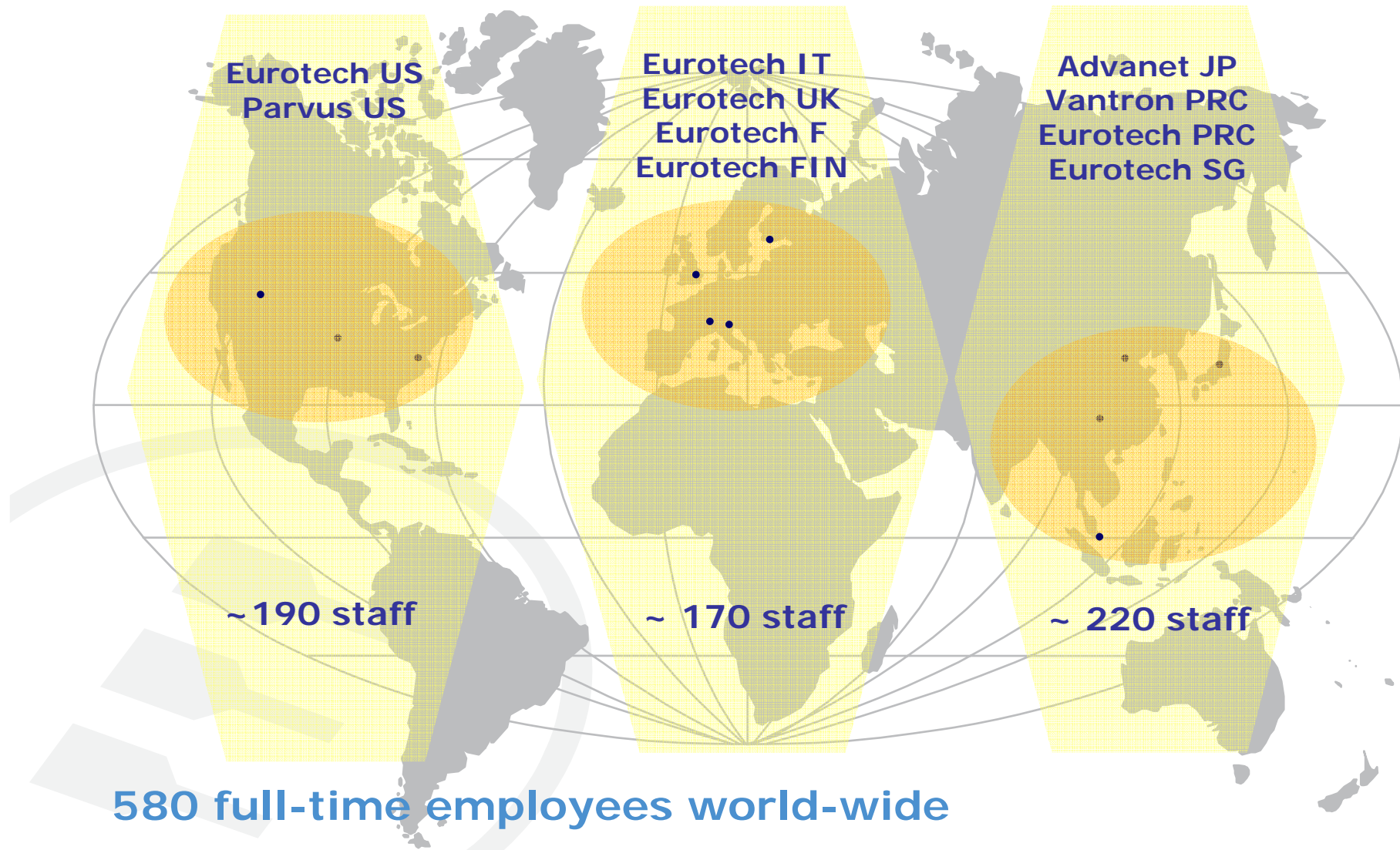


Eurotech path to compliance

- **Experience in electronic and mechanical design**
- **Optimal EMI implementation**
- **Internal pre-compliance testing**
- **Accredited compliance certification**
- **Production quality control procedures**



Our Global Footprint



Contact Information

www.eurotech.com

The screenshot shows the EuroTech Group website homepage. At the top left is the EuroTech Group logo with the tagline "DIGITAL TECHNOLOGIES FOR A BETTER WORLD". To the right of the logo are browser controls (A+, A-, X) and an Italian flag. Below the logo is a navigation menu with links for Home, Contact us, and Sitemap. The main banner features the "Everyware™" logo over a blue background with a train. Below the banner is a secondary navigation bar with icons and labels for PROFILE, PRODUCTS, and INVESTOR RELATIONS. The main content area is divided into four columns: "Eurotech WorldWide" with a world map, "Markets" listing "Transportation, Mobility & Surveillance TMS" and "ICN Industrial, Commercial & Networking", "Products" featuring a "DuraMAR 1000 Router" with an image, and "Latest News" with two news items dated 4/15/2008 and 3/29/2008.