Defense Switch & Router MSR-2005

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Highlights

Blue Line MSR-2005 is a COTS multiport and multimedia managed 1G/10G Ethernet L2/L3 Switch with Edge computing capabilities that is packaged in a reliable, lightweight and compact MIL-STD-810G certified enclosure. A military compliant dual redundant power supply is fitted in fully equipped versions to cover all applications and accept American & European standard AC/DC voltages for immediate worldwide operation.

Latest-generation conduction-cooled electronics have been custom-designed to fit enclosure mechanics and withstand harsh environments. The SWITCH-ROUTER is fitted with a complete set of active auxiliary electronics and

BLUE LINE
IT for Demanding Environments

supervisory systems that are indispensable for next-generation programs and provide increased payload safety, greater system control and easy integration.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.

• Defense managed 20x port GbE L2/L3 switch & router

• Protocol support for High-availability Seamless Redundancy (HSR), Parallel Redundancy Protocol (PRP), and Precision Time Protocol (PTP)

• IP66 certified

• MIL-STD-810G & MIL-STD-461G certified

• Multilayer management, security & monitoring

• Real-time high/low temperature monitoring and remote reset, battleshort & standby system control

• MIL-STD-810G & MIL-STD-461G compliant, and Cybersecurity certified

• Up to 6x 1/10GbE SR/LR/BX Fiber Optic Links

• General-purpose service ethernet port

• General-purpose, PPS and IRIG-B input and output available on auxiliary connector

• Large range of options

• Customization according to your requirements

Specifications

Model Type

Defense switch & router

Form Factor

SFF / small form factor conduction cooled

Construction

Aluminium

Cooling

Sealed military enclosure cold plate cooled

Environment

1st class military enclosure

Certification

MIL-STD-461G CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103

MIL-STD-810G Method: 501.5 507.4, 508.5, 509.3, 513.6, 514.6, 516.6

MIL-DTL-38999, MIL-STD-704F, MIL-STD-1474D, MIL-STD-110F, MIL-STD-1275D, IP66

Processor

Xilinx Zynq UltraScale + EG. EG devices feature a quad-core ARM® Cortex-A53 platform running up to 1.5GHz.

Combined with dual-core Cortex-R5 real-time processors, and a Mali-400 MP2 graphics processing unit.

RAM

Up to 32GB DDR4 - 64-bit attached to processor subsystem

Input / Output

Miscellaneous (13 pin)
Power (5 pin)

Expansion

CAN 2.0 ports, RS-232/422/485 Modbus/Profibus/Serial Console

Special Function

Firewall and VPN capabilities
HSR/PRP protocols
IEEE 1588 (PTP)

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Power Supply

DC power input / consumption +28VDC, +48VDC, +270VDC / 50W

AC power input / consumption 115VAC 40-800Hz, 220VAC 40-800Hz / 50W

Power Consumption

50W

Dimension and Weight

Dimension	H 98 x W 220 x D 155mm
Metalwork weight	1.9kg
With PSU & Payload weight	3.4kg

Accessories Optional

Various signaling and power cabling

Warranty and After Sales Support

Standard 1 year (option for 3 years)