

LMS-41H

Rugged Fanless Server

128 GB RAM
8-Core Intel Xeon

Description:

The OPTOKON introduces highly versatile mobile Server in a single low-SWaP device. As the center of the mobile data network, it provides an integrated and versatile server for military, public safety and C4ISR systems.

The system is equipped with power full Intel® Xeon® processor witch delivers exceptional value and unmatched performance density per watt in an SoC package, 128 GB RAM, four removable Storage discs SSD and wide range of connection ports, both fiber optic and copper wires. The LMS is available in rugged boxes to fill all demands on communication system used in harsh environmental conditions and Extended operating temperature (-20 to 60°C). Fiber optic ports are equipped with rugged HMA connectors operated according to "Expanded Beam" technology, which allow to use all advantages of high speed data transmission in field conditions.

The innovative design ensures the capability for deployment in the toughest environments where high performance and total reliability are critical.

Primary features

- Robust compact design resistant to harsh environmental conditions and rough handling
- Intel® Xeon® processor D-1541
- 128 GB RAM ECC DDR4 2400 MHz
- On board SSD disc M.2 NVMe and 4x removable SSD 2.5
- 2x 10/100/1000Base-T ports and
- 2x 1000Base-X FO uplinks
- Rugged MRJ connectors series
- Linux-based router solutions supports a multitude of routing protocols



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Product Specifications

- Intel® Xeon® processor D-1541 (8-Core, 16 Threads, 12 MB Cache, 2.1-2.7 GHz)
- HW Notifications sent via email and SNMP traps
- Monitors for CPU Cores, System level control

System memory

- 128 GB ECC RDIMM DDR4 2400 MHz

Solid State Drives

- 1x M.2 NVMe PCI-E 3.0 x4, M Key 2242/2280 480 MB
- 4x removable 2.5" SSD Drive Trayless Hot Swap SATA Mobile Rack
- SATA3 (6 Gbps); RAID 0,1,5,10 RSTe up to 4x 1 TB
- iSMART disk health monitoring
- iData Guard for abnormal power failure

Management and monitoring

- KVM with dedicated LAN, Support for Intelligent Platform Management Interface v2.0 with virtual media over LAN and KVM-over-LAN
- Hardware Monitoring (temperature, voltage, power failure, power consumption, disk health, and memory health)

Input / Output

- Panel Mount Receptacle
 - 2x FO HMA
 - 2x GbE RJ-45
 - 1x KVM with dedicated LAN RJ-45
 - 2x USB 3.0
 - 4x USB 2.0
 - 1x RS232
 - Video VGA port

Power consumption

- Power input 10.5-36 VDC
 - Nominal conditions: 65 W
 - Maximum load: 95 W

Detailed specifications

OS Compatibility Chart (SATA AHCI mode)

- Windows 7 SP1, Win 8 Enterprise, Win 10
- Fedora 22, 23
- SuSE SLES 11 SP4
- Ubuntu 14.04.3(4) LTS, Ubuntu 14.10 (15.10)
- Oracle Linux 7.2
- FreeBSD 10.1(2), FreeBSD 11
- CentOS 7.0, CentOS 7.2
- VMware ESXi 5.5 U2, VMware ESXi 6.0 (U1a)
- Citrix XenServer 6.5 SP1

Front Control Panel LED indicators

- PWR LED
- HDD SATA LED

- Fail Motherboard LED (provides warnings of overheating, fan or power failure)
- NIC1 Activity LED (Gbit LAN1)
- NIC2 Activity LED (Gbit LAN2)

Environmental

- Temperature operating: -10¹ to +60°C
- Storage Temperature: -40 to +85°C
- Humidity: 5% to 95%
- Cooling Passive
- Fulfils MIL-STD-810G, IP 65 protection
- Dimensions: 430 x 275 x 88 mm (W x D x H)
- Weight: 6.9 kg

EMC Standards

According to MIL-STD-461G

Note: 1) during operation it is possible lower the temperature to -20°C

Ordering information

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Xeon® processor D-1541; 480 GB M.2 NVMe; four 1 TB SSD; 128 GB RAM; SM 1310 nm, 10 km;
4 GbE ports (2x FO, 2x RJ45), 2U box

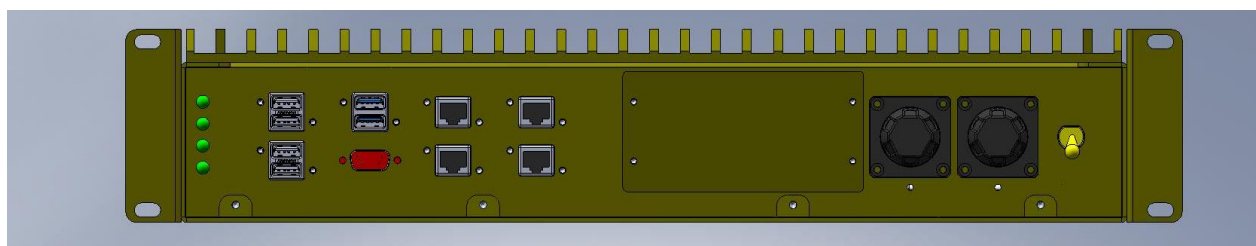
Standard accessories:

Manual
Power supply cable DC 3 m: PSCAB2-03

Optional accessories

Power supply connector set: LMCON-PSC-01
LAN – RJ-45 cable
VGA cable
USB2, USB3 cable
RS232 cable
HMA FO cable

Front panel description:



4x USB2 2x USB3 IPMI 2x GbE 4x removeable SSD 2x FO
 VGA RS232