

RS1310

High Performance Outdoor IP65 Multi-Access Edge Platform



Rugged Power Efficient Multi-Access Edge Platform for Remote Environments

- ▶ Optimized for extreme environments (wide temperature range, dust, water, ice and vibration resistant)
- ▶ Embedded Ethernet switch option with network timing and synchro solution
- ▶ Offering two IP65 variants – fully passive cooled or fan assisted
- ▶ Seamless software migration from Kontron ME1310 multi-access edge platform

RS1310

Powerful Outdoor Platforms For Easy Deployment Of Low Latency and High Bandwidth Applications In Remote Sites

Kontron introduces the ruggedized RS1310 outdoor, IP65 rated platform, built to withstand extreme temperatures and live in harsh environments. Simplify the deployment of new network services by mounting the heavy-duty RS1310 platform directly to a mobile tower, wall or pole, and monitor it remotely.

The goal of our compact Xeon® D platforms is to solve remote site challenges while enabling complex applications closer to the network edge.

▶ TECHNICAL INFORMATION

PROCESSOR	Intel® Xeon® D-2700 Processor options: D-2796NT 20C/2.0 GHz 120 W (with Intel® QuickAssist Software Acceleration) D-2776NT 16C/2.1 GHz 117 W (with Intel® QuickAssist Software Acceleration) D-2766NT 14C/2.0 GHz 97 W (with Intel® QuickAssist Software Acceleration)
MEMORY	8x DDR4 DIMM sockets, 4 channels @ up to 3200 MHz support up to 512 GByte (8x 64 GByte)
STORAGE	NVMe SSDs options: Up to 4x M.2-2230 (up to 512 GByte each), or up to 2x M.2-2230 (up to 512 GByte each) and 2x M.2-2280 (up to 2 TByte each); RAID 1 and 10 (Intel® vROC – license required)
NETWORKING	Switch Module option: Integrated Microchip VSC7558TSN 200GbE switch, 4x SFP28 and 8x SFP+ Ports, up to 4x 25GbE or 2x 25GbE + 7x 10GbE or 12x 10GbE (FW configurations), High precision 1588v2 hardware time stamping 4X 25GE Intel® Xeon® D-2700 direct from integrated NIC controller option: Intel® Xeon® D-2700 integrated NIC controller 1588v2 support This option is planned for development. Please contact Kontron Sales.
TIMING AND SYNCHRONIZATION	Hosted in Switch Module option: SyncE & PTP with Telecom profile performance including G.8275.1 with GNSS switchover Master and Boundary Clock modes Optional advanced OCXO to support 4 hours Hold-Over requirement Connector: 1x GNSS input and 1PPS output
SERVICE AND DIAGNOSTIC PORTS	1x GbE Copper Interface (shared Management port) (RJ-45), 1x Serial Console Port (RJ-45), 1x USB 2.0 and 1x 3.0 interfaces to Intel® Xeon® D-2700
PCIe EXPANSION	2x Full Height, ¾ Length PCIe slots with x16 lanes Gen4 Auxiliary power connector available
MANAGEMENT	Independent management controller supporting Redfish API, IPMI v2.0, SNMP, Web UI and independent network connectivity (based on AST2600) Secured firmware capabilities: - BMC(encrypted firmware, platform firmware resiliency, secured communication protocols) - UEFI (encrypted firmware, storage, Secure Boot, TPM v2.0) Remote access using KVM & Virtual Media In-service Firmware Upgrade capability 7x Dry contact alarm inputs through a M16 IP65 connector
MECHANICAL	Fan-assisted option: (H) 523mm x (W) 519mm x (D) 253mm; Approx. 28 kg Full passive cooled option: On demand – please contact Kontron Sales.
ENVIRONMENTAL	Operating Input Voltage: -48 VDC (-40 VDC to -57 VDC) Operating Temperature: -40 °C to 46 °C+Sun (GR3108 Class 4) IP65 (Fan-assisted option) Certifications: UL/CSA, CE, BIS, UKCA, VCCI and CCC (on demand – contact Kontron Sales) 10-year lifecycle

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