



DATASHEET

Multi-PC RUGGED Unit MPC-4CEC

P/N
560-00755-xxx
-xxx configuration



- MPC-4CECnet is a multiprocessor unit configured with up to 4 autonomous modules (CEPx01).
- The modules are integrated into a rugged frame (MPCT) and are “hot swap” extractable.
- An internal module is dedicated to the LAN Switch functionality, with 2 uplinks on SFP+ connectors.
- MPC-4CECnet is equipped with a power supply unit, with “Active O-ring” internal distribution and redundancy capability.
- The CEP module is based on a COM Express card and a proprietary carrier designed for the required I/O interfaces.

CEP module SPECIFICATIONS

MPCT4 frame SPECIFICATIONS

Motherboard (MDB)	<ul style="list-style-type: none"> • COM Express Basic type 6 • Compliant with PICMG COM.0 R2.1 specification • Gen. 6 Intel® Single processor • Chipset: PCH QM170. TPD 45W • DP, HDMI selectable video channel • 4K resolution video graphics on mini DP • SATA3 integrated controller • Internal expansion interfaces: <ul style="list-style-type: none"> • 2 PCIe 2.0 x4 on carrier board • Smart fan control, Thermal protection • Watchdog, GPIO, SMBus, I2C, Serial TTL
CPU	<ul style="list-style-type: none"> • Intel® i7-6820EQ (CEP701) CPU • CPU speed (norm/turbo): 2,8/3,5 GHz • Cores:2; Threads:48, Cache: 4 MB
RAM	<ul style="list-style-type: none"> • Size: up to 2 SODIMM 204 pin slots • Type: DDR4L, 2133 MHz, 1,35V SODIMM • Max size: 32 GB • Installed memory: 1 x 8 GB stick (16GB opt.)
Mass Memory	<ul style="list-style-type: none"> • One internal SATA3 port • 1 internal mSATA (256GB max) • Installed: 128GB MSATA SSD
Graphics	<ul style="list-style-type: none"> • Gen 9 LP Intel® Chip integrated on MDB • Mini 4K DP: up to 4096x2304@60Hz, 24bpp • Optional: HDMI 4096x2160@24Hz
I/O Ports and Connectors	<ul style="list-style-type: none"> • N° 1 GbE LAN external port (RJ45) • N° 1 GbE LAN internal port on NetSwitch • Mini Display Port • N° 1 standard USB 3.0 port • N° 1 micro USB 2.0 port • N° 1 RS-232 port on mini USB
Software	<ul style="list-style-type: none"> • Windows WE10 Embedded • Opt. WES 7, WES10, RedHat, SUSI • iManager 2.0. / AMT HW monitoring

NET-SWITCH module	<ul style="list-style-type: none"> • Network connection of CEP501 modules • 2x 10GbE uplinks on SFP+ (F.O. or CU) • MSA compliant, ETH compatible SFP+ • Independent or Dual Homing (Spanning Tree Protocol) links configuration • Layer 2 level functionality • Http, Telnet, DHCP, SNMPv1, v2, v3 • MAC authentication, VLAN, QoS, Statistics
Power supply	<ul style="list-style-type: none"> • Input AC: 90-264 Vac; 47-63 Hz • IEC-310-C14 connector with EMI filter • 300W output power @12 Vdc • Redundant power supply (optional) • “Active O-ring” internal distribution
Physical characteristics	<ul style="list-style-type: none"> • 19” rack frame compliant to EIA-319 standard • Height: 44 mm – 1UR • Width: 446 mm (rails included) • Depth: 400 mm (rack interior) • Weight: 10 Kg max • RAL-7030 grey (other colors available) • Forced air flow system integrated

Environmental SPECIFICATIONS

Environmental (MIL-STD-810G)	<ul style="list-style-type: none"> • Operating Temperature: 0 ÷ +55°C • Storage: -40 ÷ +70°C • Humidity: 5 ÷ 90% without condensation • Pressure (transportation): 4600 m a.s.l.
Mechanical (MIL-STD-810G)	<ul style="list-style-type: none"> • Shock: 15 g, 11 msec pulses • Shock (transportation): 30 g, 11 msec • Vibration: 0,25 mm from 5 to 14 Hz 0,2 g from 14 to 100 Hz
CE Regulations	<ul style="list-style-type: none"> • CE labeling • RoHS, REACH • Safety EN 60950