

MILNEURON 1000 RUGGED EMBEDDED COMPUTER



ABOUT

The Rugged Science MILNEURON 1000 Ultra-compact military computer features an ultra small form factor, multiple I/O onboard, WiFi/3G/4G/UMTS/GPS supported, PoE+ reliable performance in harsh environments and a wide range of power input to make easy implementation possible.

The MILNEURON 1000 Ultra-compact military computer is a powerful, fanless, compact and cost effective choice to meet the most demanding requirements for size, weight, power, (SWaP) and thermal performance.

FEATURES

- Intel® Atom™ Quad Core E3845 1.91GH processor
- Rugged, -25°C to 70°C operating temperature
- Fanless and ultra-compact
- 6V to 36V DC power input
- 4 COM (RS-232/422/485) with auto flow control
- DVI-I for VGA/DVI/HDMI video output
- 4x USB 3.0
- 2x GbE LAN



System

Processor	Intel® Atom™ Quad Core E3845 1.91GHz Processor
Chipset	Intel® SoC
Memory	1x DDR3L 1333 SO-DIMM, up to 8Gb
Video	1x DVI-I for VGA/DVI/HDMI output
Audio	1x Line-out
Software Support	Windows 8, Windows 7, WES 7, Linux

I/O Interface

Serial	4x RS-232/422/485
Ethernet	2x Gigabit LAN by Intel® I210
USB	4x USB 3.0
DIO	8x isolated DIO (4x DI, 4x DO)
LED	Power/HDD/WTD/PoE
Mini PCIe	1x Mini PCIe Socket (PCIe + USB + SIM card socket) 1x Mini PCIe Socket (PCIe + USB) optional with mSATA (Jumper Select)

Power

Power Input	Terminal Block; DC-IN 6V to 36V 2-pin Remote Power On/Off Switch Power Button
Adapter	AC to DC 60W (optional)

Storage

SATA HDD	1x SATA II Port at 3.0Gbps 1x Front-access CFast Slot, Push-in/ Push-out Ejector (SPC-2845R) 1x Front-access SSD/ HDD Tray (SPC-2845RS)
mSATA	1x Mini PCIe socket (PCIe + USB), optional with mSATA

Other

Watchdog Timer	Reset: 1 to 255 sec/min per step
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Mechanical

Size (W x D x H)	106mm x 150.4mm x 65.9mm (4.2" x 5.9" x 2.6")
Weight	1.4 lbs. (3.1Kg)
Design	- Ultra-compact; 3.5" form factor - Top cover heat sink; fanless design
Mounting	- Wallmount by mounting bracket - DIN-Rail mounting kit (optional)

Environmental

Operating Temperature	-13°F to 158°F (-25°C to 70°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Humidity	5 to 95%, Non-condensing

Designed to Meet

MIL-STD-901D	Shock
MIL-STD-461E	EMI (Electromagnetic Interference)
MIL-STD-167-1A	Vibration
MIL-STD-810G	Temperature/Immersion/Humidity