

## MILNEURON 1100 RUGGED EMBEDDED COMPUTER



### ABOUT

The Rugged Science MILNEURON 1100 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 1100 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 1.91 GHz processor
- Rugged, -25°C to 70°C operating temperature
- Fanless and Ultra-compact (3.5" form factor)
- 6V to 36V DC power input
- 4 COM (RS-232/422/485) with auto flow control
- DVI-I for VGA/DVI/HDMI video output
- 8 Isolated DIO, 4 USB 3.0
- 2 PoE+ GbE LAN



## System

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

## I/O Interface

<b>Serial</b>	4x RS-232/422/485
<b>Ethernet</b>	2x Gigabit LAN by Intel® I210
<b>PoE</b>	2x Gigabit IEEE 802.3at (25.5W/48V) PoE+ ports
<b>USB</b>	4x USB 3.0
<b>DIO</b>	8x isolated DIO (4x DI, 4x DO)
<b>LED</b>	Power/HDD/WTD/PoE
<b>Mini PCIe</b>	1x Mini PCIe Socket (PCIe + USB + SIM card socket) 1x Mini PCIe Socket (PCIe + USB) optional with mSATA (Jumper Select)

## Power

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

## Storage

<b>SATA HDD</b>	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)
<b>mSATA</b>	1x Mini PCIe socket (PCIe + USB), optional with mSATA

## Other

<b>Watchdog Timer</b>	Reset: 1 to 255 sec/min per step
-----------------------	----------------------------------

## Mechanical

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

## Environmental

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

## Designed to Meet

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