

MilCortex 3000 RUGGED EMBEDDED COMPUTER



ABOUT

With 6th/7th Gen Quad Core Intel® Xeon®/Core™ i7/i5/i3 Processors (Skylake/Kaby Lake), Intel's® CM236 chipset, up to 32Gb RAM, and 4 PoE+ LAN ports - our MILCORTEX 3000 rugged embedded computer systems packs some serious punch. The MILCORTEX 3000 features 6 GigE LAN ports (4 WITH POE+), 3 SIM sockets, 4 RS-232/422/485 COM ports, 6 USB 3.0 and 2 front-access 2.5" SSD bays!

The MILCORTEX 3000 is ideal for performance driven applications in the harshest operating environments. The MILCORTEX 3000's durability, size, -40°C to 75°C operating temperature range, and raw computing horsepower make it an obvious choice.

FEATURES

- Quad Core Intel® Xeon® or Core™ i7/i5/i3 CPUs (Skylake/Kaby Lake)
- 2 DDR4 2133MHz, up to 32GB (ECC/ Non-ECC)
- 6 independent GigE LAN - 4 with PoE+
- 6V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control
- 2 Front-access 2.5" SSD trays
- 6 USB 3.0
- 4 RS-232/422/485 COM ports
- -40°C to 75°C operating temperature

System	
Processor	Quad Core Intel® Xeon®/Core™ i7/i5/i3 Processor (Skylake-S/Kaby Lake-S)
Chipset	Intel® C236
BIOS	AMI
SIO	IT8786E
Memory	2x DDR4 2133MHz SO-DIMM, up to 32 GB

I/O Interface	
Serial	4x COM RS-232/ 422/ 485 (ESD 8KV)
USB	6x USB 3.0 (external), 1x USB 2.0 (internal)
DIO	NA
LED	Power, HDD, PoE
SIM Card	3x SIM Card Socket (external)

Expansion	
Mini PCIe	3x Mini PCIe socket: 2x Full-Size PCIe for PCIe/ USB/ External SIM/ mSATA 1x Half-Size for PCIe/ Internal SIM/
SUMIT A, B	2x SUMIT Slot (optional)

Graphics	
Processor	Intel® HD Graphics 630/530
Interfaces	DVI-D : Up to 1920 x 1200 @ 60 Hz DVI-I : Up to 1920 x 1200 @ 60Hz DisplayPort : Up to 4096 x 2304 @ 60Hz

Storage	
SATA	2x SATA III (6Gbps)
mSATA	2x SATA III (Mini PCIe Type, 6Gbps)
SATA DOM	1x SATA II (3Gbps)
M2 DOM	1x PCIe 3.0 (8GT/s)/SATA III (6Gbps)
Storage Device	1x CFast Socket, Push-in/ Push-out Ejector/ 2x Front-access 2.5" SSD/ HDD Tray

Audio	
Codec	Realtek® ALC892, 5.1 Channel HD Audio
Interface	1x Line-Out, 1x Mic-In

Ethernet	
LAN 1	Intel® I219LM Gigabit LAN supports iAMT 11.0
LAN 2	Intel® I210 Gigabit LAN
PoE (LAN 3-6)	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210

Power	
Input	6V to 36V, DC-in
Interface	3-pin Terminal Block : V+, V-, Frame Ground
Remote Switch	3-pin terminal Block: ON/OFF/IGN
Surge Protection	Up to 80V/1ms Transient Power
Ignition Control	16-mode, Internal

Mechanical & Environmental		Other	
Dimensions (L x W x H)	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")	TPM	Supports TPM 2.0 LPC Interface (optional)
Weight	3.8 kg (8.38 lbs.)	Watchdog Timer	Reset: 1 to 255 sec./min. per step
Mounting	Wallmount by bracket, 2U rackmount (optional)	Smart Management	Wake on LAN, PXE supported
Storage Temp.	-40°C to 85°C (-40°F to 185°F)	HW Monitor	Temp., Voltage, Auto-throttle on CPU Overheat
Humidity	5% to 95% Humidity, non-condensing	OS	Win. 7, 8.1, 10, Linux
Relative Humidity	95% at 75°C		
Operating Temp by Wattage	35W TDP CPU: • Core™ i7, i5, i3 : -40°C to 75°C (-40°F to 167°F) • Xeon® E3-1268L v5 : -40°C to 70°C (-40°F to 158°F) 65W TDP CPU: Core™ i7, i5, i3 : -40°C to 55°C (-40°F to 131°F) 80W TDP CPU: E3-1275 v5, E3-1225 v5 : -40°C to 45°C (-40°F to 113°F)		