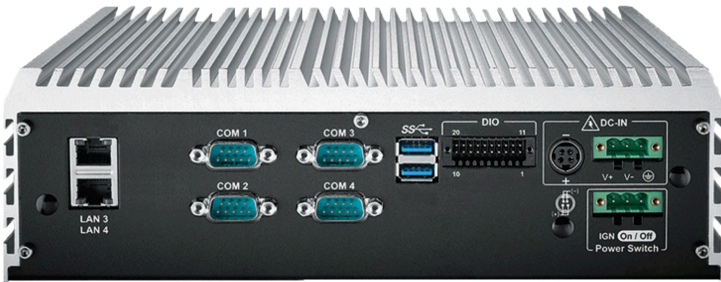


MILCORTEX 3000

RUGGED EMBEDDED COMPUTER



OVERVIEW

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 - the Rugged Science 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 for mission critical systems.

FEATURES

- Quad Core Intel® Xeon® or Core™ i7/i5/i3 CPUs (Skylake/Kaby Lake)
- 2 DDR4 2133MHz, up to 32G (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 (ECC/Non-ECC)

I/O Interface

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

Expansion

Mini PCIe	3x Mini PCIe Socket: 2x full-size for PCIe/USB/external SIM card/mSATA, 1x half-size for PCIe/internal SIM card
SUMIT A/B	2 slots (optional)

Graphics

Processor	Intel® HD Graphics 630/530
Interfaces	DVI-D : Up to 1920x1200 @ 60Hz, DVI-I : Up to 1920x1200 @60Hz, DisplayPort : Up to 4096 x 2304 @ 60Hz

Storage

SATA	2x SATA III (6 Gbps)
mSATA	2x mSATA (mini PCIe type, 6GB/s)
SATA DOM	1x SATA II (3Gbps)
M2 DOM	1x PCIe 3.0 (8GT/s) / SATA III
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

Power

Input	6V to 36V, DC-in
Interface	3-pin circular connector: V+, V-, frame ground
Remote Switch	3-pin terminal block: ON/OFF/IGN
Ignition Control	16 mode (internal)
Surge Protection	Up to 80V/1ms transient power

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

Mechanical

Dimensions	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")
Weight	~3.8 kg (8.38 lbs.)
Operating Temp	-20° to 60° C (-4 to 140° F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% at 75°C
Storage Temperature	-40° to 85° C (-40 to 185° F)
Operating Temp by Wattage	35W TDP CPU: Core™ i7, i5, i3 : -40°C to 75°C / Xeon® E3-1268: v5 : -40°C to 70°C 65W TDP CPU: Core™ i7, i5, i3: -40°C to 55°C 80W TDP CPU: E3-1275 v5, E3-1225 v5 : -40°C to 45°C