RUGGED

MILCORTEX 2000 RUGGED EMBEDDED COMPUTER



MILCORTEX 2000 - front



MILCORTEX 2000 - back

ABOUT

Step up to the Quad Core 5th Generation Intel Broadwell-H Processor inside of the rugged MilCortex 2000 military embedded computer. High performance computing productivity wrapped in a rugged, thermally efficient chassis make the MilCortex 2000 the ideal computer for military applications. Tested and designed to meet stringent military specifications, including MIL-S-901D, MIL-STD-167-1, and MIL-STD-461F, the MilCortex 2000 delivers cutting-edge performance, smart electrical protection, and trusted rugged reliability all in a single compact package. The MilCortex 2000 was designed to meet a broad range of application requirements and includes the Intel® QM87 chipset, dual channel DDR3L memory at 1600MHz, up to 32GB. Advanced Intel® Iris™ Pro Graphics 6200/ Intel® HD Graphics 5600 supports VGA, DVI-I, dual DisplayPort and eDP display interfaces. up to 3 independent 4K display.

Like all Rugged Science Military Division Products, the MilCortex 2000 features an embedded CPU and chipset that are on Intel's embedded road map. This translates to guaranteed support for a minimum of 7 years, in many cases much longer with industrially popular chips. Embedded road map chipsets can be a key obsoletion management tool when planning new military computing systems



MILCORTEX 2000 features 2 front-loading 2.5" SSD bays with convenient thumbscrew fasteners

FEATURES

- Quad Core 5th Generation Intel® Core™ i7 Processor (Broadwell-H)
- VGA/ DVI-D/ DisplayPort/ eDP Interface, up to 3 Independent 4K Displays
- Fanless, -25°C to 70°C Operating Temperature
- 2 Independent Gigabit Ethernet LAN ports
- 3 Mini PCle Socket for:3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 2 External SIM Card Socket
- 2 Front-access 2.5" SSD Tray
- 6V to 36V DC-in, 80V Surge Protection
- Configurable Ignition Power Control

MILCORTEX 2000 SPECIFICATIONS

Processor Quad Core 5th Generation Intel® Core™ i7-5850EQ/ i7-5700EQ (Broadwell-H) Intel® OM87 Chipset **BIOS** AMI SIO IT8786E

Memory 2 DDR3L 1600MHz SO-DIMM, up to 32GB

I/O Ports

Serial Interface 4x COM RS-232/ 422/ 485

4x USB 3.0, 3x USB 2.0 (2 External, 1 Internal) USB

LED Indicators Power, HDD. PoE **GPIO** 32x GPIO (16x internal) SIM Card 2x SIM Card socket (external)

Expansion

SUMIT A, B 2x SUMIT slot (optional) 3x Mini PCIe Socket

Mini PCle 2x Full-size for PCIe/ USB/ External SIM Card/ mSATA

1x Half-size for PCIe/ USB

Graphics

Intel® Iris™ Pro Graphics 6200 (5850EQ) **Graphics Processor**

Intel® HD Graphics 5600 (5700EQ) DB-15 VGA: 1920 x 1200 max

DVI-D: 1920 x 1080 max

Display Interfaces Display Port 1: 4096 x 2304@ 60Hz

Display Port 2: 4096 x 2304 @ 60Hz eDP: up to 4096 x 2304 @ 60Hz

Storage

2x SATA III - 6Gbps (bottom load) SATA 1x SATA III (Mini PCle Type, 6Gbps)

1x SATA II - 3Gbps DOM

CFast slot, Push In-Out ejector Storage Expansion

2x front-access 2.5" SSD/HDD tray

Ethernet

LAN 1 Intel® I218 Gigabit LAN supports iAMT 9.5

LAN 2 Intel® I210 Gigabit LAN

LAN 3-6 (PoE) Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210

Power

Input Voltage 6 to 36V, DC-in

3-pin Terminal Block : V+, V-, Frame Ground **Power Interface**

Mini-DIN 4-pin 16 mode (internal)

3-pin Terminal Block: On, Off, IGN Remote Switch

Surge Protection Up to 80V/1ms Transient Power

Mechanical

Ignition Control

Chassis/Mounting Aluminum housing, Wall mount by bracket, DIN rail mount

Size (W x D x H) 10.2" x 6.9" x 3.1" (260mm x 175mm x 79mm)

Weight 6 lbs. (2.8Kg)

Environmental

Operating Temperature -13°F to 158°F (-25°C to 70°C) - Wide temp. version available (-40°C to 85°C)

Storage Temperature -40°F to 185°F (-40°C to 85°C)

Humidity 10 to 95%, Non-condensing 95% at 70°C

Relative Humidity EMC CE, FCC, RoHS

Additional

Trusted Platform Module Infineon SLB9635, LPC Interface (optional) Watchdog Timer Reset: 1 to 255 sec/min per step

Smart Management Wake-on-LAN, PXE supported

HW Monitor Temperature & voltage auto-throttle on CPU overheat

Audio Codec Realtek ALC892, 5.1 Channel HD Audio **Audio Interface** Line-out, Mic-in, Front Audio Header

Designed to Meet

MIL-STD-901D Shock

EMI (Electromagnetic Interference) MIL-STD-461E

MIL-STD-167-1A Vibration

MIL-STD-810G Temperature/Immersion/Humidity









