## **ANTARES ICE 1U**



## **FEATURES**

High performance – Intel<sup>®</sup> Core<sup>™</sup> i7/Core<sup>™</sup> i5 processor in a 1U chassis

**Rugged** – Designed to meet MIL-STD-810F shock & vibration levels

**Feature rich** – PCle and Mini PCle expansions, dual HDMI, front panel display

**Simple** – Comprehensive set of standard PC peripheral ports

Advanced – Hyperthreading, virtualisation and remote management

**Future proof** – consistency and longevity of supply

- Multi-media infotainment
- **Machine control**
- **Communications control**
- Media servers
- Data concentrators
- Asset monitoring
- **Digital signage**

The ANTARES ICE 1U is a 1U high, 19" rack mount computer intended for use as an industrial PC or embedded (diskless) platform. Based upon Eurotech's ANTARES single board computer, the ANTARES ICE 1U offers new levels of performance using Intel Core i7 processors, providing advanced features such as virtualisation, hyperthreading and remote system management via Intel's AMT feature (available even if the operating system has crashed). These features are coupled with a rugged chassis system and the longevity of supply associated with all Eurotech products.

Following the format set by the popular APOLLO ICE 1U, standard PC peripherals are broken out via the rear panel, together with the power connector for the universal AC or optional DC PSU, and an expansion card bay offering two PCI-E slots.

The front panel provides 2 USB ports, a recessed RESET button and a 256x64 pixel monochrome LCD display, together with access to the DVD and optional removable hard drives. Hard drive arrangements (SATA) are extremely flexible, with the ability to fit a single 3.5" internal drive and up to two 2.5" drives fitted into a removable caddy which sits behind an access cover in the front panel. Alternatively a second 3.5" internal drive can be fitted in place of the 2.5" caddy. Options also exist to run embedded operating systems from Flash memory directly on the ANTARES embedded SBC, allowing critical data such as the operating system and application to be accessed without the need for rotating hard drives. Flash memory is provided via an SD card slot on the ANTARES which is accessible from the rear panel of the ICE unit via a retaining access cover.

Further expansion capability exists via two PCI Express MiniCard sockets (with SIM support) located on the ANTARES embedded SBC and accessed via panels on the unit. These are ideally suited to the addition of wireless communication modules such as 3G modems or Wi-Fi cards, and mounting points exist on the rear panel for the fitting of SMA antenna connectors for this purpose.

The ANTARES ICE supports Windows Embedded Standard, Windows 7 and Fedora Linux.



**Specifications** 

## **System Architecture**

Intel® Core™ i5 520E 2.4GHz
Intel <sup>®</sup> Core™ i7 610E 2.53GHz
Intel <sup>®</sup> Core™ i7 620LE 2GHz
Intel <sup>®</sup> Core™ i7 620UE 1.06GHz
Intel <sup>®</sup> Celeron P4505 1.86GHz
Mobile Intel <sup>®</sup> QM57 Express Chipset
Windows Embedded Standard, Windows 7 and Fedora Linux
Up to 8GB
2 x PCI Express
2 x PCI Express MiniCard sockets with SIM support
2 x HDMI
Optional VGA on 1U
Front panel monochrome 256x64 pixel LCD display
2 x USB front panel connectors
4 x USB rear panel connectors
2 x Gigabit Ethernet ports supporting 10/100/1000baseT
Intel 82577 - PXE/Intel AMT
Intel 82574L - PXE
1 x RS232 via rear panel
1 x RS232/RS485/RS422 (software selectable) via rear panel
2 further internal RS232 ports available for custom builds
Atmel AT97SC3204 TPM 1.2 factory fit option
Fanless option available
Phoenix Trusted Core BIOS
Software monitoring of temperatures and voltages
Tamper detect switch on chassis lid
DVD/RW via front panel
Drive position 1 - internal 3.5" SATA
Drive position 2 - internal 3.5" SATA or 2 x 2.5" SATA in
caddy behind access cover on front panel
Watchdog timer support
+5°C to +50°C
1U high, 19" rack mount chassis (352mm deep)
Passivated, painted mild steel
Designed to meet
Emissions: EN55022:1998, A1, A2
Conducted Emissions EN55022, A1, A2 Class B
Radiated Emissions EN55022, A1, A2 Class B
Immunity: EN55024:1998, A1, A2
FCC Verification: Part 15B, Class B
Designed to meet the Radio and Telecommunications Terminal Equipment
Directive 1999/5/EC
Designed to meet Vibration Shock 514.5 Category 20
In accordance with MIL-STD-810F, Method 516.5
Universal AC (90-132V, 180-264V AC @ 47-63Hz, auto-ranging)
DC – details TBA – 24V DC nominal

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