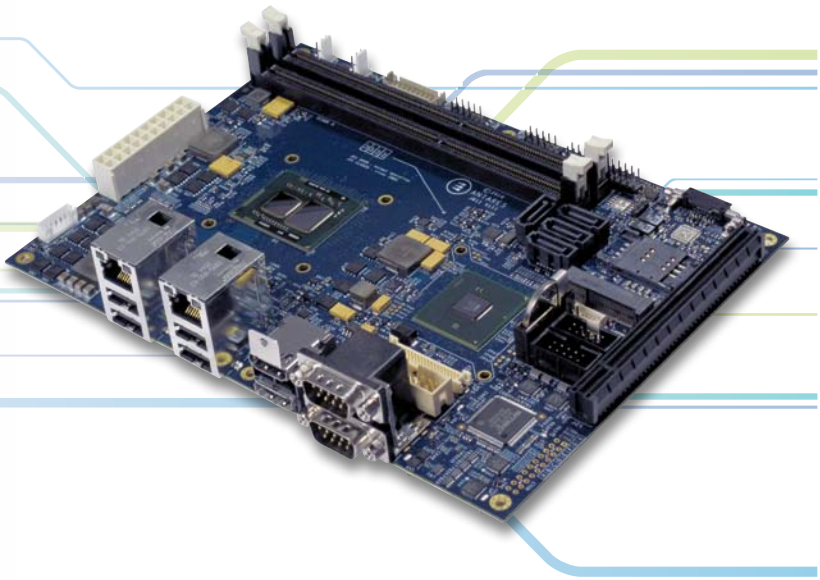
ANTARES

5.25” format format Mobile Intel® QM57 Express Chipset SBC



FEATURES

High performance – Intel Core i7/Core i5 processor technology

Power efficient – Low power consumption with fanless option

Robust – Wide -20 to +60 C operating temperature

Feature rich – 4 video output, x4 PCIe, dual Mini-PCIe, SIM support, GbE

Advanced – Support for hyperthreading, virtualisation & remote management

Future Proof – Consistency and longevity of supply

- **Multi-media infotainment**
- **Machine control**
- **Kiosks**
- **HMI**
- **Manufacturing machinery**
- **Communications control**
- **Data concentrators**

The ANTARES is a 5.25” single board computer based on the new Mobile Intel QM57 Express Chipset. Designed to offer high performance with low power dissipation, the ANTARES is available with Intel Core i7 or Core i5 processor options and is ideal for use in compact spaces with restricted ventilation.

Traditional embedded system requirements are well catered for with features such as Watchdog, GPIO, four serial ports, an integrated SD/MMC Flash port for accessing storage cards and Mini PCIe expansion for wireless modules such as Wi-Fi, Bluetooth and cellular modems. The ANTARES supports advanced features such as virtualisation, hyperthreading and remote system management via Intel’s AMT feature (available even if the operating system has crashed), making it simple to add sophisticated capabilities to any embedded design. Coupled to a wide operating temperature range, options for fanless operation, and long term chipset support, the ANTARES embedded PC is ideal for applications in commercial, industrial and transportation projects requiring high performance computing within a rugged and reliable platform.

The ANTARES is supported by rapid application Development Kits for Windows Embedded Standard, Windows 7 and Fedora Linux.

ANTARES

Specifications

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System Architecture

PROCESSOR	Intel® Core™ i5 520E 2.4GHz Intel® Core™ i7 610E 2.53GHz Intel® Core™ i7 620LE 2GHz Intel® Core™ i7 620UE 1.06GHz Intel® Celeron® P4505 1.86GHz
CHIPSET	Mobile Intel® QM57 Express Chipset
SUPPORTED OS	Windows Embedded Standard, Windows 7 and Fedora Linux
MEMORY	Up to 8GB
PCI EXPRESS	1 x PCI Express x 4 2 x PCI Express MiniCard sockets with SIM support Support for up to 2 simultaneous independent displays GRAPHICS LVDS, CRT, HDMI 1.3 (DVI with cable adapter)
USB SUPPORT	4 x USB front panel connectors 4 x USB (internal) 2 x USB on PCI Express MiniCard sockets
ETHERNET	2 x Gigabit Ethernet ports supporting 10/100/1000baseT Intel 82577 - PXE/Intel AMT Intel 82574L - PXE
SERIAL PORTS	3 x RS232 1 x RS232/RS485/RS422 (software selectable)
GPIO	16 x GPIO (5V) 8 x inputs, 8 x outputs SMBus interface
TPM	Atmel AT97SC3204 TPM 1.2 factory fit option
THERMAL SOLUTION	Fanless option available
BIOS	Phoenix Trusted Core BIOS
H/W MONITORING	Software monitoring of temperatures and voltages
SERIAL ATA	4 x SATA connectors for direct cable connect. BIOS support for host swap and for eSATA connection, RAID mode 0, 1, 5 and 10 supported
FLASH MEMORY	SD/MMC card socket • BIOS boot capability • SDHC support for cards up to 32GB
WATCHDOG	Watchdog timer support
OPERATING TEMPERATURE	-20°C to +60°C

Development Kit

The ANTARES Development Kit is available in the following variants;
- ANTARES Standard DevKit, with a 8.4” flat panel display & touchscreen
- ANTARES No-LCD DevKit, with the perspex base only (no display set)

The ANTARES Development Kit comes pre-loaded with the following operating systems;
- Windows Embedded Standard
- Windows 7
- Fedora Linux

Systems and Enclosures

The ANTARES is available as a board-only solution, and also within a 1U high, 19” rackmount enclosure, providing a ready-to-go platform for embedded and industrial PC applications.

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