

PAR-2311

PAR-2311 features an **Intel® i7** 4 Core Processor which offers high performance, yet is low on power consumption. Ideal for applications which require increased productivity, speed, high performance, large storage and modern graphic features.

Product Name: PAR-2311
Part Number: PAR-2311



Specifications

Fanless Platform	Low power, low operation temperature 4/2 Core fanless aluminum alloy embedded system
Dimensions	300mm (W) X 146.5 mm (H) X 220mm (D)
Processor	Intel® Core i7 / i5 / i3 high performance processor 64 bit, HT, Turbo Boost, AES, AVX, vPro, VT, AMT technology Built-in media grade high performance Graphic engine Intel® QM67 South Bridge Chipset
ATM	Intel Active Management Technology (AMT) - Supports iAMT 7.0 - Remote troubleshooting and recovery
Memory	2 SO-DIMM Socket, Up to 16 GB , 1066 MHz DDR 3 Memory Supports 1Gb , 2Gb and 4Gb DDR-3 DRAM technologies with x8 and x16 devices unbuffered, without ECC
BIOS	AMI BIOS Support Console Redirection
Power Management	S1, S3, S4 suspend mode Wake up event from USB , Modem Ring , RTC Alarm and LAN Power On After Power failure
Storage	2 internal 2.5" SATA-2/3, optional anti-vibration protection Optional support removable external 2 SATA device eSATA for external SATA device, Compact Flash socket Support RAID 0 / 1 . RAID 5 by request
Graphic	Intel HD graphics with Clear Video technology DirectX video acceleration (DXVA) engine High resolution dual independent display: - DVI + VGA Dual independent display - DVI + LVDS Dual independent display (optional) - VGA + LVDS Dual independent display (optional)
Expansion	1 16x PCIe expansion slot
Ethernet	2 100/1000 Mbps LAN interface with Wake-On-LAN
Watchdog Timer	Programmable WDT from 1 to 255 seconds/minutes
Hardware Monitor	Monitors voltage and temperature
Audio	ALC662-GR Codec supports Speaker-out
Front Panel Extend I/O	2 USB , 3 DB-9 for RS-232 , 1 DB-15 D-I/O eSATA , 1 optional DB-44 dual channel 24 bit LVDS 2 LED for power / HDD status Power and Reset button
Rear Panel Extend I/O	DC or optional AC inlet power input connector 2 DB-9 RS-232 /422/485 (optional DC output) 4 USB, 2 x 100/1000 Mbit LAN connector 1 DVI+DB-15 VGA connector Micro-phone-in / Line-in , 1 Line-out PS/2 Keyboard & PS/2 Mouse connector
Power Input	DC 12V, optional AC 90-264V 47/63 Hz
Power ON/OFF Mode	AT or ATX Power ON/OFF mode
Environment	Operation Temperature with Automotive HDD & SSD: - i7 CPU: -30°C to 55°C (-22°F to 131°F) - i5 / i3 / B810 CPU: -30°C to 60°C (-22°F to 140°F) Storage Temperature: -40°C to 80°C (-40°F to 176°F) Relative Humidity: 10% to 90% (Non-condensing)
Optional Isolation	Isolated CAN, RS-422/485 or Digital I/O by request
OS Support	Windows XP Professional / Embedded, Windows 7, Linux
Certification	CE Class A, FCC Class A
Technical Support	Free technical support

FEATURES

- ✓ *Intel® 4 core i7 or 2 core i5 / i3 high performance Processor*
- ✓ *Intel® QM67 mobile chipset*
- ✓ *DDR-3 1066 MHz, SO-DIMM, up to 4 GB without ECC*
- ✓ *DVI / VGA / LVDS dual independent display*
- ✓ *2 Giga LAN, 6 USB, 5 COM*
- ✓ *Internal or optional removable SATA-HDD, eSATA*
- ✓ *Line-in & Line-out audio*
- ✓ *1 16x PCIe expansion slot*
- ✓ *DC or optional AC power input*

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