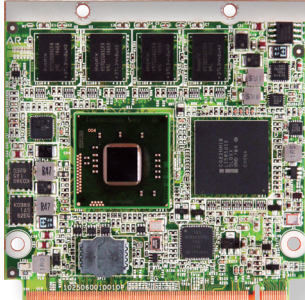


QSM-653E



Wide-Range Temperature Intel® Atom™ Processor N2600 Qseven® R.12 CPU Module



Features

- **Fanless Design**
- Soldered onboard Intel® Atom™ Processor N2600
- Integrated Gigabit Ethernet
- Single Channel 18-bit LVDS, Analog RGB and DDI Port
- **Wide-Range Operating Temp.: -40 ~ 85°C**

System

Processor	Soldered onboard Intel® Atom™ Processor N2600 1.6GHz
Chipset	Intel® PCH NM10
Memory	Soldered onboard 2GB DDR3 SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset

I/O

USB 2.0	8 x USB 2.0 host (1 x configurable as client)
Expansion	3 x PCIe1, LPC
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82583V PCIe GbE controller
Audio	HD link

Display

Graphic Chipset	Integrated Intel® GMA 3600 Analog RGB/DVI: Analog RGB (via RSV pin)
Graphic Interface	LCD: Single Channel 18-bit LVDS, with resolution up to 1366x768 DDI port: 1 x DDI port

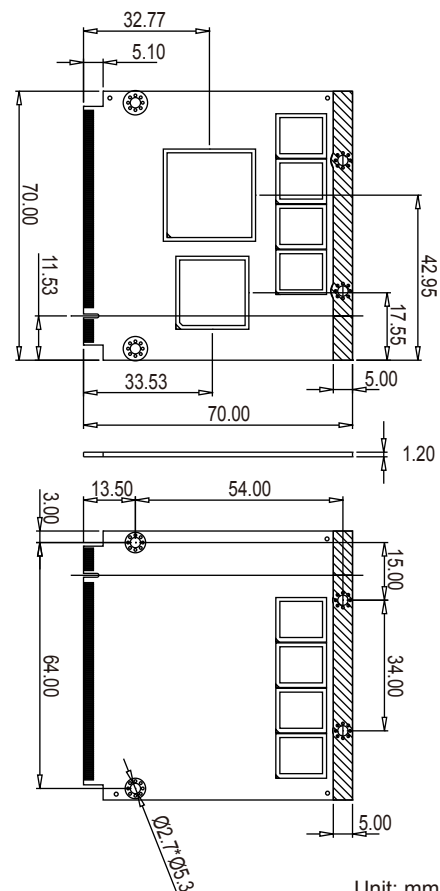
OS Support

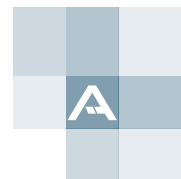
Windows XP
Windows 7 32-bit/64-bit
Linux: Ubuntu

Mechanical & Environmental

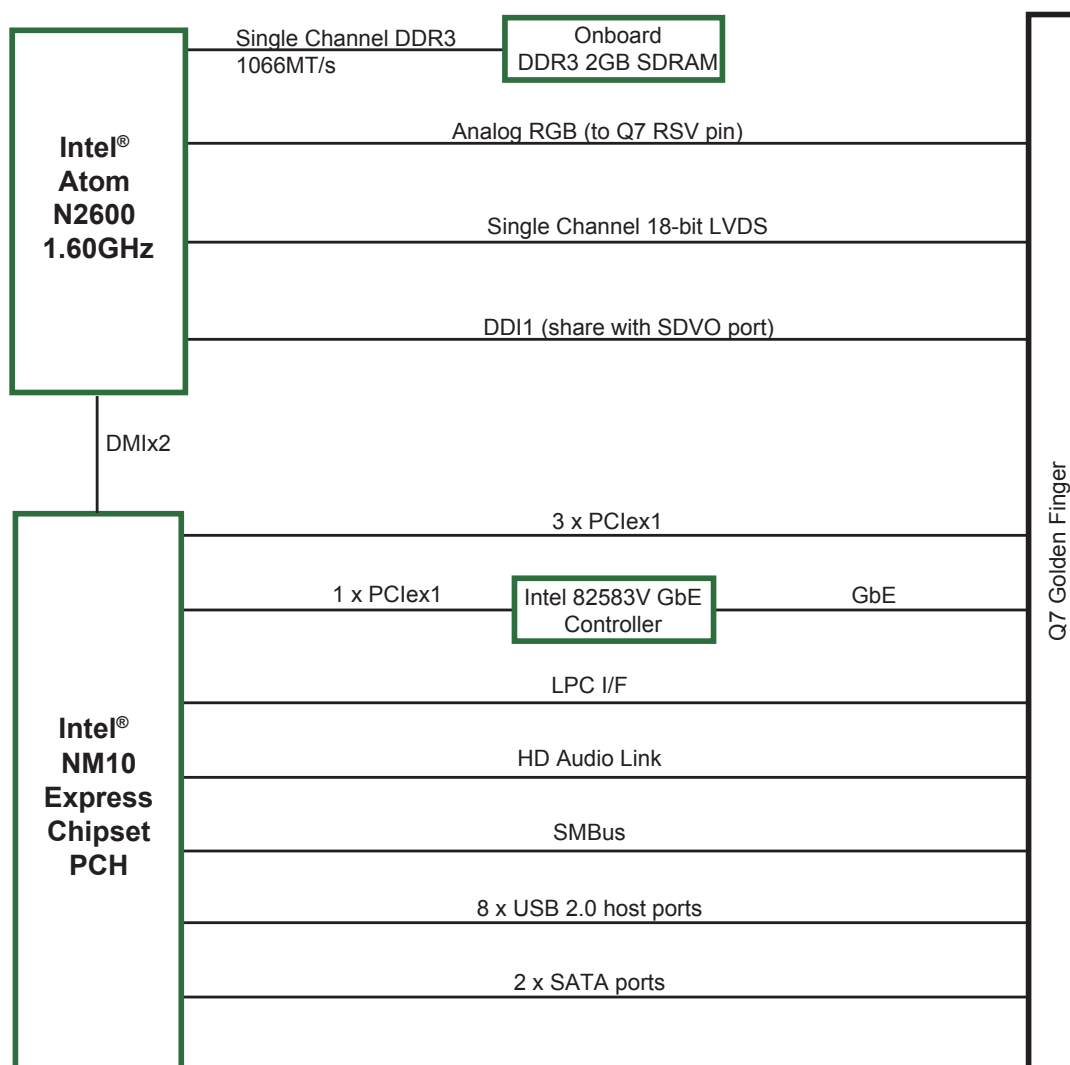
Power Requirement	5V, 5VSB
Power Consumption	1.26A@12V (Typical, with PBQ-3000)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	70 x 70 mm (2.76" x 2.76")

Dimensions





Block Diagram



Ordering Information

QSM-653E (BTO)	Intel® Atom™ Processor N2600/ NM10 WT Qseven® CPU module with 2GB memory soldered on CPU module
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Optional Accessories

HS-2506-F2	Heat spreader 70x67x8 mm
HS-0000-W3	Universal evaluation heat sink kit with thermal pad 70x65x29.8mm, only used on a flat-type heat spreader
PBQ-3000	Qseven® R1.2 carrier board in EPIC form factor
CBK-06-3000-00	Cable kit 1 x USB cable 1 x USB2 cable 2 x Serial port cables 1 x SATA cable 1 x SATA power cable