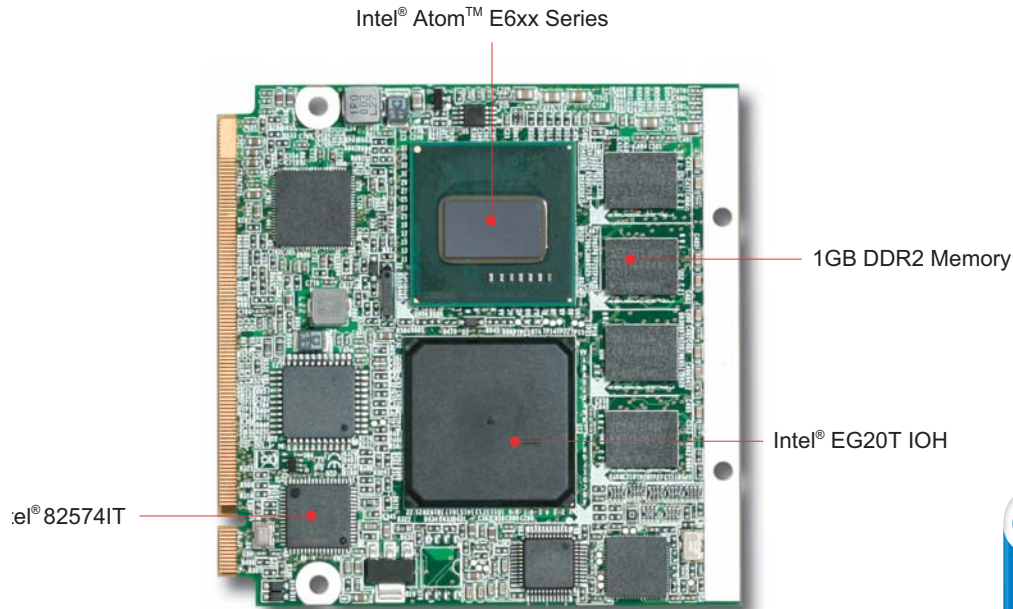


PQ7-M105IT

Qseven module based on Intel® Atom™ E620T/ E640T/E660T/E680T platform with DDR2 SDRAM, four PCI Express lanes, 24bit LVDS, SDVO, CAN bus, NANDrive



* Actual Size

FEATURES

- Atom™ ultra low power CPU (E620T E640T/ E660T/E680T) and IOH (EG20T) total TDP is under 5W fan-less application
- Full Hardware acceleration of H.264, MPEG2/4, VC1 and WMV9 supported
- On board 512MB DDR2 supported up to 2GB
- Four PCI Express lanes supported
- CAN Bus interface supported
- SATA 4GB Solid State Drive, onboard (optional)
- Trusted Platform Module 1.2, onboard (optional)

ORDERING GUIDE

Standard	<p>PQ7-M105IT-600-0512 Intel® Atom™ E620T Processor based Qseven module with 512MB DDR2 SDRAM, LVDS Display, Four PCI-Express x1 lanes, CAN, SDVO and without SSD</p> <p>PQ7-M105IT-1100-1024 Intel® Atom™ E640T Processor based Qseven module with 1GB DDR2 SDRAM, LVDS Display, Four PCI-Express x1 lanes, CAN, SDVO and without SSD</p> <p>PQ7-M105IT-1330-1024 Intel® Atom™ E660T Processor based Qseven module with 1GB DDR2 SDRAM, LVDS Display, Four PCI-Express x1 lanes, CAN, SDVO and without SSD</p> <p>PQ7-M105IT-1600-1048 Intel® Atom™ E680T Processor based Qseven module with 2GB DDR2 SDRAM, LVDS Display, Four PCI-Express x1 lanes, CAN, SDVO and without SSD</p>
Optional	Heat Spreader

GENERAL

Processor	Intel® Atom™ Processor E620T/E640T/E660T/E680T
Chipset/Core Logic	Intel® IO Hub EG20T
System Memory	Memory down, up to 1 GB DDR2 667/800 SDRAM, single channel and two rank
BIOS	AMI
Storage Devices	SATA x1 (up to 2x SATA if no SSD) SSD (onboard;4GB/8GB/16GB/32GB)
Solid State Disk	On-board ATA 4GB Solid State Drive, up to 8G Byte support (optional)
Watchdog Timer	Customization
Expansion Interface	- Four PCI Express x1 lanes - One Port SDVO interface - One Port CAN BUS Interface - LPC interface - High definition audio interface
Hardware Monitoring	EMC 1402 for Voltage and Temperature Sensing
Dimension	Dimension : 70(W) x 70(L) mm; 2.75"(W) x 2.75" (L)
Environment	Operating Temperature: -40 to 85oC Storage Temperature: -40 to 85oC Operation Humidity: 5 to 90%

I/O

MIO	N/A
IrDA	N/A
Ethernet	One Gigabit Ethernet Controller Intel® WG82574IT
Audio	Intel® High Definition Audio (Intel® HD Audio)
USB	USB 2.0 x 8
Keyboard & Mouse	N/A

DISPLAY

Graphic Controller	Intel® E620T/E640T/E660T/E680T ATOM™ processor integrated
Graphic Memory	TBA
Display Interface	- Single channel 112MHz LVDS transmitter, supports display with 1x18 and 1x24 bit data mapping up to resolutions of 1280x768 pixel - Single channel SDVO interface, supports resolutions up to 1280x1024 pixel - Dual independent display support