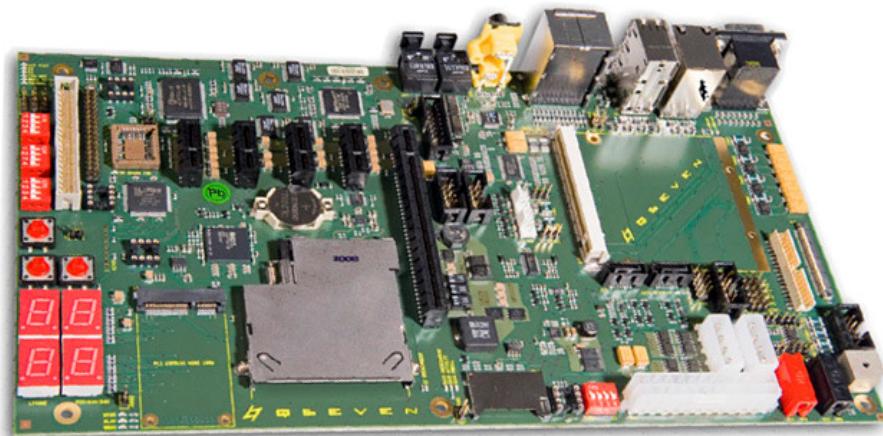


The H4103 is a reference carrier board for rapid prototyping or low volume production with Qseven modules like the Hectronic H6049. H4103 is shipped with a complete set of design files. An extensive design guide for the Qseven module technology is also provided to allow the motherboard designer to easily implement a custom version of a Qseven carrier board.



Features

- Socket for Qseven compatible modules
- Four PCI Express x1 slots*
- One ADD2 slot for SDVO/DP/HDMI*
- Optional standard converter for VGA or DVI
- MiniPCle slot
- ExpressCard slot
- MMC/SD Card interface
- Two SATA onboard connectors*
- Two Super I/O (Winbond/SMSC)
- COM1/COM2, LPT, fan control and HW monitor
- HD audio codec with surround support (6 channel)
- Up to eight USB interfaces*
- LVDS display connection via Jili30 interface
- LED and POST code displays aid debugging
- EEPROM for LPC/I²C/SMBus/EPI/DID
- Buttons for Reset, Power, Lid
- Size (173 x 304 mm)
- ATX power connector (20+4 pin), optional 5VDC*

* The Qseven module used will limit the set of features that are realized from the complete feature set of the H4103 Reference Carrier Board. Consult the Datasheet of your Qseven module for more information.

H4103 - Technical Specifications*

Module Interface	Socket for one Qseven module	Ethernet	One RJ45 connector for LAN on Qseven module
PCI Express	Four PCI Express x1 slot	Debug Support	POST Display and LED indicators, Beeper
SATA	2 x SATA connectors	System Control	SMSC 3114 or Winbond W83627DHG for extra COM ports
MMC/SD Card	Cardholder with 8bit interface	Power	Standard 24pin ATX power connector and additional 2pin 5VDC connector
EEPROM	<ul style="list-style-type: none">• Serial EEPROM - SM Bus• Serial EEPROM - I²C Bus• Serial EEPROM - EPI/DP extensions	Dimensions	305mm x 173mm
USB	<ul style="list-style-type: none">• 8 x USB 2.0• Five USB-Host (Serie-A Jack)• One USB-Host or one USB-Client• One USB at MiniPCIExp. socket• One USB at ExpressCard socket	Ambient Temperature	0°... +60°C operating -25°... 85°C storage
Serial	2 x COM on 9 pin Dsub connector driven by the onboard Super I/O, 2x COM port on header with SMSC Super I/O	Humidity	20 ... 80% operating 5 ... 95% storage (non condensing)
Graphics	Standard SDVO/DP/HDMI interface <ul style="list-style-type: none">• Digital DVI monitor interface via SDVO/DVI converter• Analog monitor interface via SDVO/DVI converter	VGA out	ADD2 VGA CARD
LCD Interface	LVDS-Interface on Jili30 connector, EEPROM to store display data, Backlight connector onboard	DVI out	ADD2 DVI CARD
Audio	High Definition Audio codec for Front Out, Mic1In, Line1 In, Surround out, Side surround out, Center/LFE, S/PDIF (Realtek ALC888)		

* The Qseven module used will limit the set of features that are realized from the complete feature set of the H4103 Reference Carrier Board. Consult the Datasheet of your Qseven module for more information.

Options

- Hectronic H6049 Qseven Module with Intel Atom

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