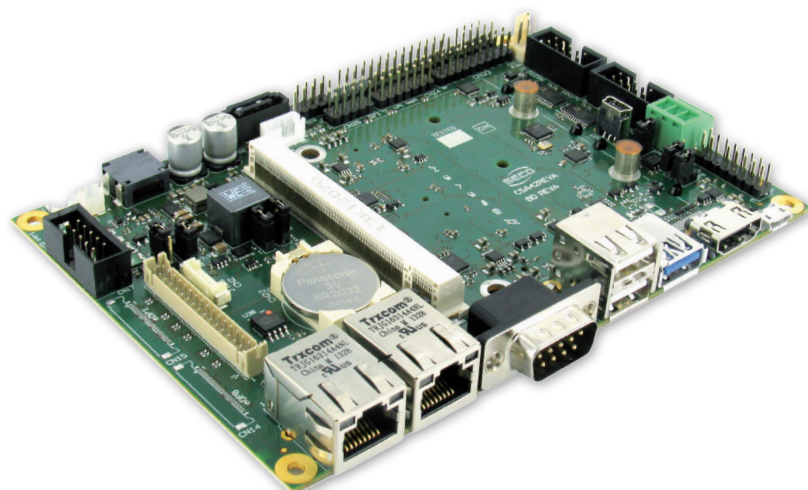




CQ7-A42

Carrier Board for Qseven® Rev. 2.0 Compliant modules on 3.5" Form factor

Feature rich for fast Time-to-market



DEVELOPMENT SAMPLING PRODUCTION

HIGHLIGHTS

- 3.5" Form Factor Carrier Board for Qseven® Modules
- Multiport Video Interfaces
- Connectivity oriented
- Embedded industrial interfaces

Available in Industrial Temperature Range



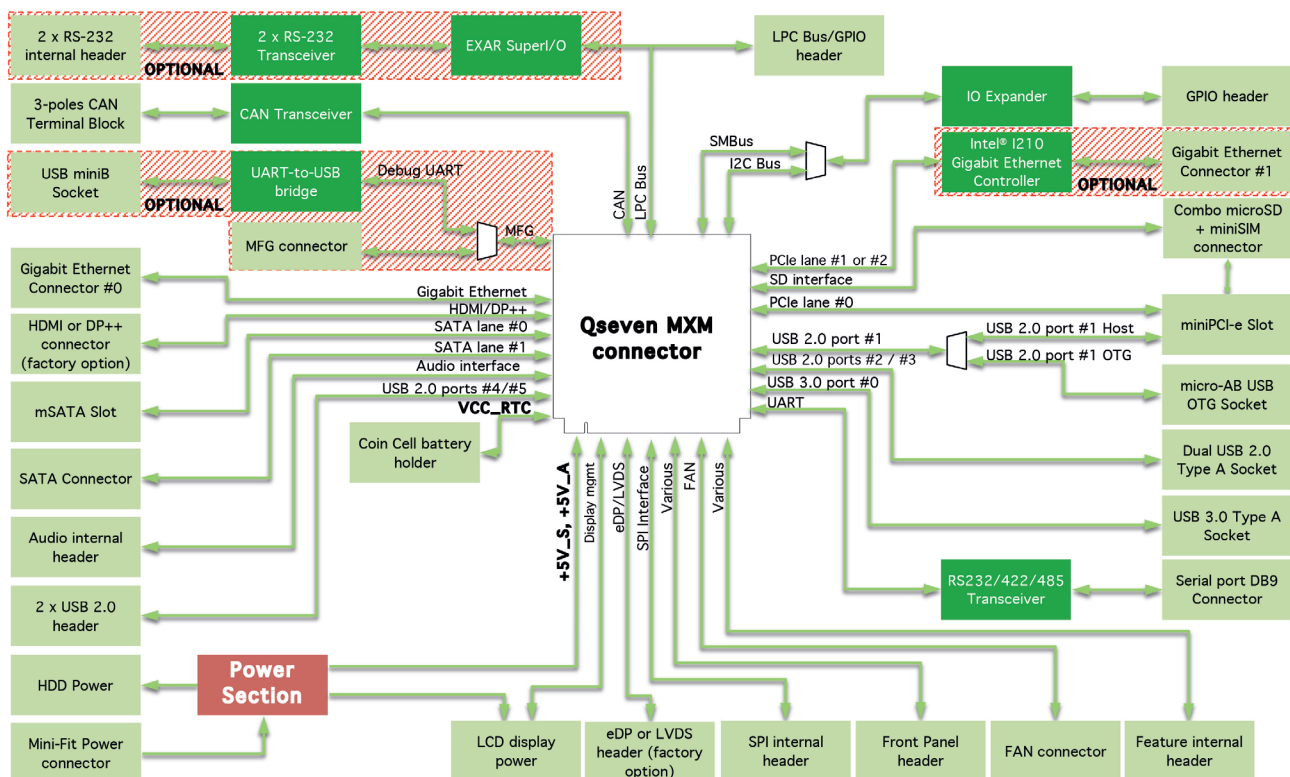
FEATURES

Video Interfaces	LVDS Dual Channel 24-bit + backlight connectors or 2 x eDP connectors Multimode Display Port or HDMI Connector	Power Supply	+12V _{DC} Mini-fit Standard ATX power connector Coin cell battery Holder for CMOS and RTC
Mass Storage	1 x SATA connector with HDD Power connector 1 x mSATA Slot microSD Slot on combo microSD + SIM connector	Operating Temperature*	-40°C ÷ +85°C (Industrial temperature range)
Networking	Up to 2 x Gigabit Ethernet connectors	Dimensions	146 x 102 mm (5.75" x 4.02")
USB	1 x USB 3.0 Host port on type-A socket 2 x USB 2.0 Host ports on double Type-A sockets 2 x USB 2.0 Host ports on internal pin header 1 x USB 2.0 OTG port on micro-AB socket (USB port shared with miniPCI-e slot)	*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.	
PCI-e	miniPCI-e slot Full / Half Size, combined with SIM card slot		
Audio	Audio interface on internal pin header		
Serial Ports	4-wire RS-232 / RS-422 / RS-485 configurable serial port on DB9 male connector 2 x RS-232 Full-modem serial ports on internal header (need LPC interface from Qseven® module) CAN interface on PCB terminal block		
Other Interfaces	SPI internal pin header LPC Bus internal pin header SM Bus / I2C GPIO expander, makes available 16 x GPIOs on internal pin header Front Panel Header 1 x 28 pin connector for additional features (I2C, ACPI signals, SM Bus, Watch Dog, Thermal Management) +12V Tachometric FAN connector Optional Debug USB port on miniB socket Optional MFG connector for JTAG programming of Qseven® module		

CQ7-A42

Carrier Board for Qseven® Rev. 2.0 Compliant modules on 3.5" Form factor

BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
QA42-0000-1111-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - DisplayPort - 2nd Ethernet Port - LVDS - Debug Port
QA42-0000-2111-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - HDMI - 2nd Ethernet Port - LVDS - Debug Port
QA42-0000-1121-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - DisplayPort - 2nd Ethernet Port - eDP - Debug Port
QA42-0000-2121-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - HDMI - 2nd Ethernet Port - eDP - Debug Port

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
VA13-0000-1100-C0	USB to RS232 serial port converter with DB9 connector
VA13-0000-1200-C0	USB to RS422 serial port converter with DB9 connector
VA13-0000-1300-C0	USB to RS485 serial port converter with DB9 connector
CABKITA42	Connection Cables Kit for QA42
VA67-0000-0000-I0	HD Audio Module
VA74-0000-0000-I0	I2S Audio module
PWK-003/QA42	Power supply kit for CQ7-A42: Power brick (60W, 12V 5A) w/ adapter cable for QA42 and Power cord w/ adapters (EU;US;JPN etc.)