



CQ7-A42

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

Feature rich for fast Time-to-market

HIGHLIGHTS

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



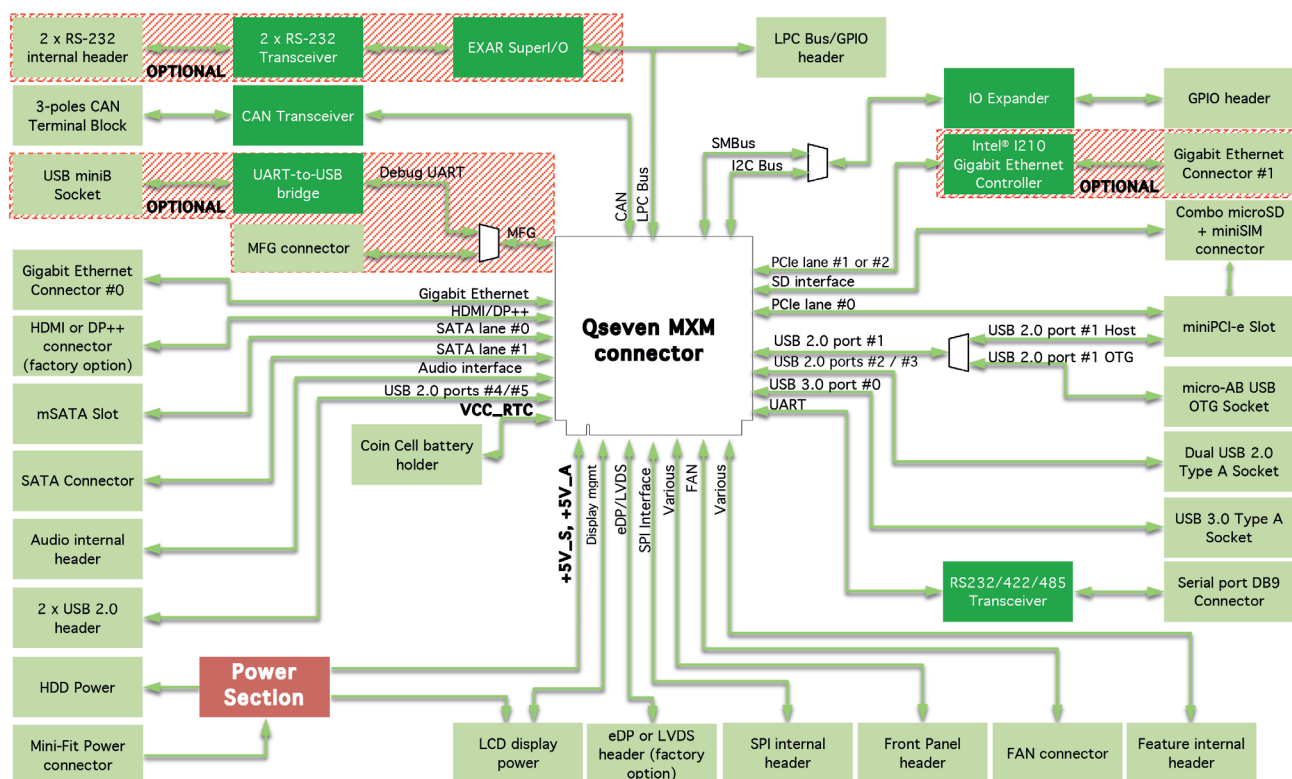
FEATURES

	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-modern 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		

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

BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
QA42-0000-1111-IO	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - DisplayPort - 2nd Ethernet Port - LVDS - Debug Port
QA42-0000-2111-IO	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - HDMI - 2nd Ethernet Port - LVDS - Debug Port
QA42-0000-1121-IO	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - DisplayPort - 2nd Ethernet Port - eDP - Debug Port
QA42-0000-2121-IO	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-IO	HD Audio Module
VA74-0000-0000-IO	I2S Audio module