Qseven®
Carrier Board

CQ7-A42
Carrier Board for Qseven® Rev. 2.0 Compliant modules on 3.5" Form factor

Feature rich for fast Time-to-market

FEATURES

Video Interfaces	LVDS Dual Channel 24-bit + backlight connectors **or** 2 x eDP connectors Multimode Display Port **or** HDMI Connector	
Mass Storage	1 x SATA connector with HDD Power connector 1 x mSATA Slot microSD Slot on combo microSD + SIM connector	
Networking	Up to 2 x Gigabit Ethernet connectors	
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)	
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	

Power Supply	+12V$_{DC}$ Mini-fit Standard ATX power connector Coin cell battery Holder for CMOS and RTC
Operating Temperature*	-40°C ÷ +85°C (Industrial temperature range)
Dimensions	146 x 102 mm (5.75" x 4.02")

*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.

SECO

BLOCK DIAGRAM

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