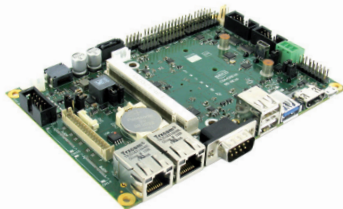




## Q7 STARTER KIT 2.0

Cross Platform Starter Kit compatible with both x86 and Arm Rev. 2.0 Qseven® modules: a complete package including the basic components necessary to start developing

Quickly “start” prototyping for short Time-to-market



### STARTER KIT CONTENTS

- Carrier board for Qseven® Rev. 2.0 compliant modules CQ7-A42 (DP or HDMI version) Module not included. Must be purchased separately
- HD Audio module
- I2S Audio module
- One 12V<sub>DC</sub> Notebook Power Adapter
- Cable kit
- Adapter for mounting a microQ7 module on standard Qseven carrier boards

Available in Industrial Temperature Range



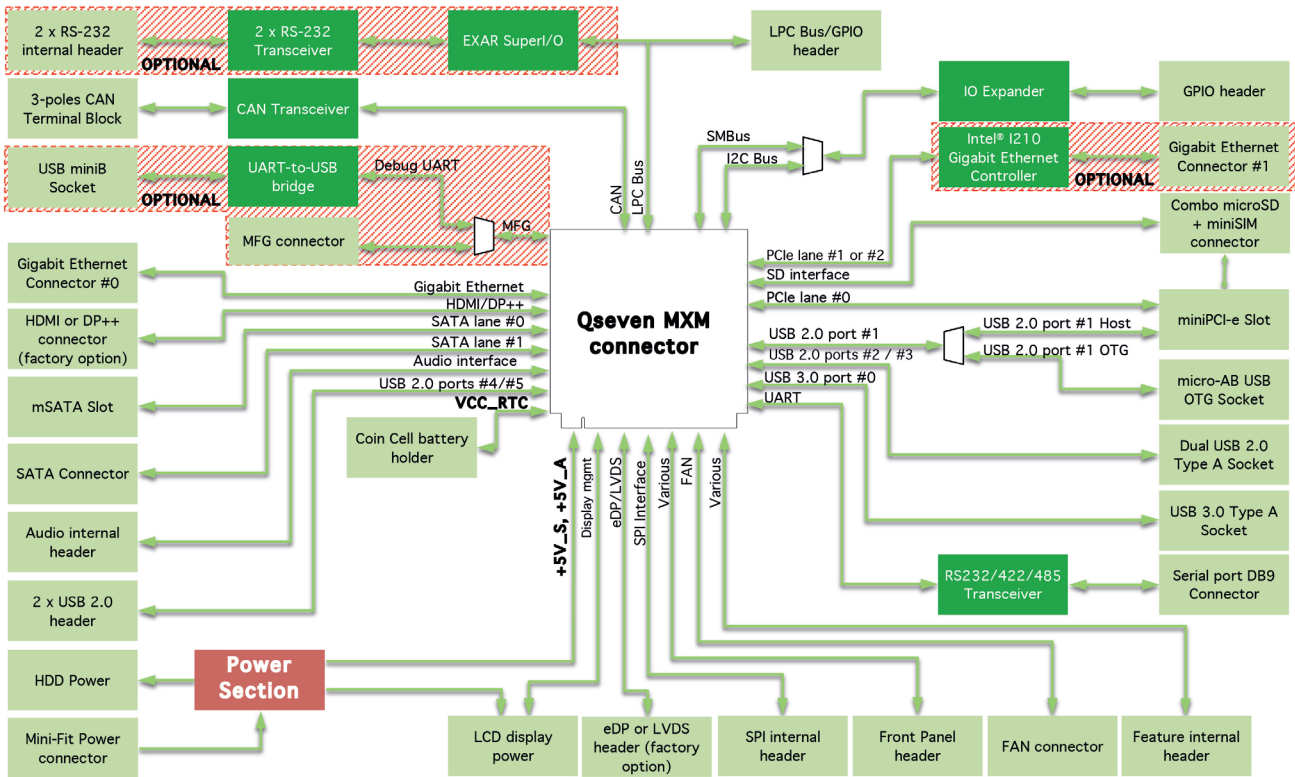
**SCHEMATICS PUBLICLY AVAILABLE**

### FEATURES OF CQ7-A42

Video Interfaces	LVDS Dual Channel 24-bit + backlight connectors or 2 x eDP connectors Multimode Display Port or HDMI Connector	Power Supply	+12V <sub>DC</sub> 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-wires 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		

# Q7 STARTER KIT 2.0

## BLOCK DIAGRAM OF CQ7-A42



Information subject to change. Please visit [www.seco.com](http://www.seco.com) to find the latest version of this datasheet.

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