Qseven®
DEVELOPMENT KIT

DEV-KIT-Q7-2.0

Cross Platform Development Kit for Qseven® philosophy, compatible with both x86 and Arm Rev. 2.0 Qseven® modules

Everything you need for flexible development





STARTER KIT CONTENTS

The Development kit contains the following material:

- Cross Platform Carrier Board CQ7-A30
- LVDS optional Display
- One 12VDC Notebook Power Adapter
- Add-on modules for LVDS / eDP and HDMI® / DP
- Cable kit

Module not included. Must be purchased separately

CROSS PLATFORM Philosophy

SCHEMATICS PUBLICLY AVAILABLE

FEATURES OF CQ7-A30

Video Interfaces	HDMI® / Display Port interface on PCI-e x16 slot LVDS / eDP interface on PCI-e x8 slot
Mass Storage	SATA Female 7p connector with dedicated Power connector, interface shared with mSATA Slot SATA Male 7+15p connector SD / MMC Card Slot SPI Flash Socket I2C EEPROM Socket
Networking	Gigabit Ethernet connector
USB	1 x USB 3.0 Host Type-A socket 1 x USB 3.0 OTG micro-AB socket 2 x USB 2.0 Host ports on internal pin header (alternative to USB 3.0 port #0) Up to 4 x USB 2.0 Host ports on quad Type-A socket
PCI-e	PCI-e x4 interface on dedicated PCI-e x16 slot shared with 3 x PCI-e x1 slots + miniPCI-e slot (selection via jumper)
Audio	Embedded HD Audio Codec, Realtek ALC888 2 x Triple HD Audio jacks 2 S / PDIF connectors (In & Out) Audio Expansion Slot
Serial Ports	CAN Bus (both TTL interface and with CAN transceiver) 3 x RS-232 only ports 2 x RS-232 / RS-422 / RS-485 configurable serial ports
Other Interfaces	Feature Connector, with I2C , SM Bus, Watchdog, Thermal and Power Management Signals LPC Bus Header SPI Pin Header SIM Card slot 4 x 7-segment LCD displays for POST codes PS / 2 Mouse / keyboard pin header 2 x tachometric FAN connectors Debug Port on mini-B USB connector Power, Reset, LID and Sleep Buttons
Power Supply	$+12V_{DC}$ Coin cell battery Holder for CMOS and RTC
Operating Temperature*	0° C ÷ 60° C
Dimensions	345 x 170 mm (13.58" x 6.69")

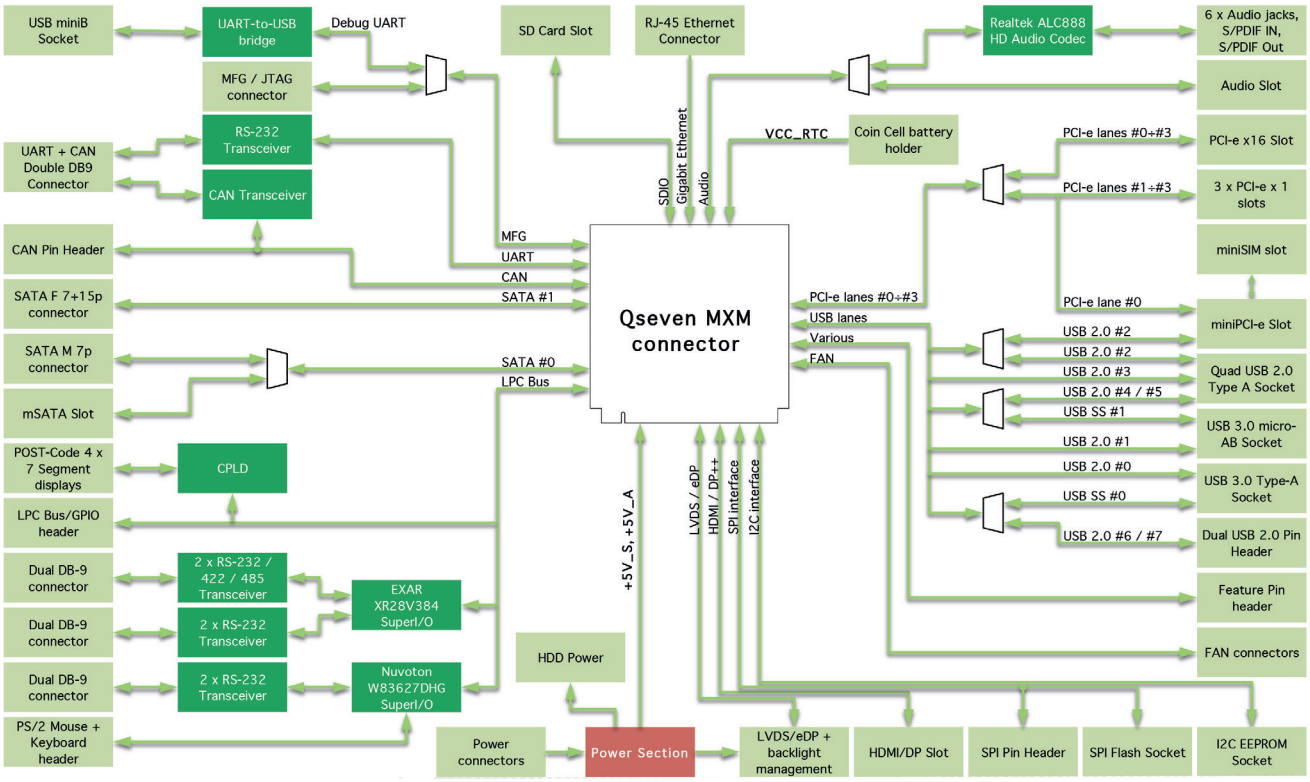
*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet

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BLOCK DIAGRAM



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Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DEVICE MANAGER

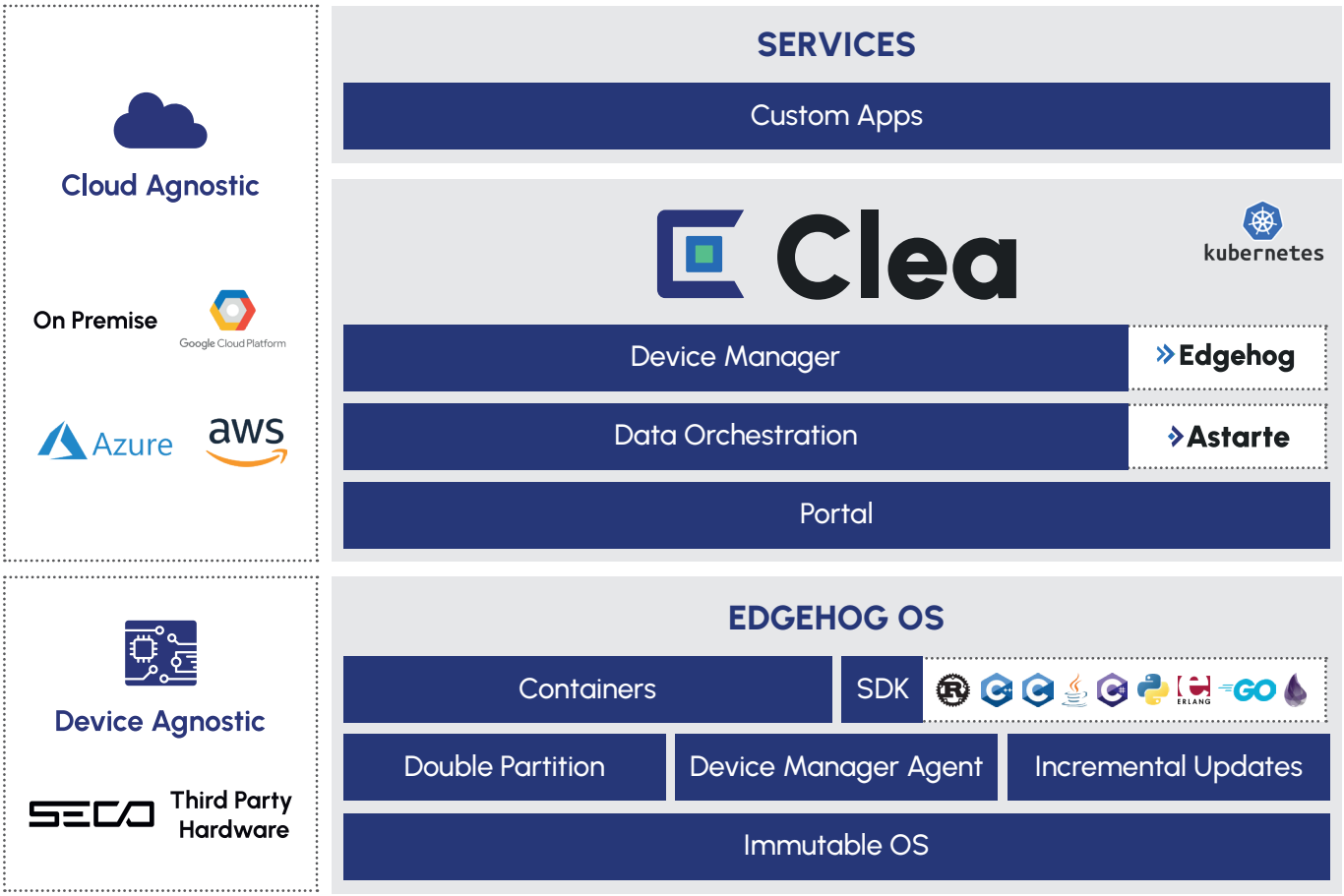
Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



Scan to know more about our solution

EDGEHOG OS

CLEA DOCS

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