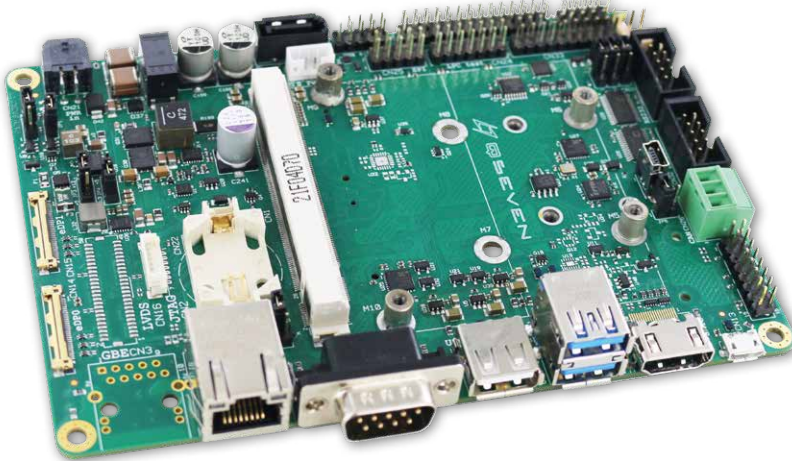




Carrier-Q7-D59

Carrier Board for Qseven® Rel. 2.0 / 2.1 Compliant Modules in the 3.5" Form Factor

Wide range of interfaces for broad development possibilities













HIGHLIGHTS

- 3.5" form factor carrier board for Qseven® modules
- Multiple video interfaces
- Multiple connectivity options
- Embedded industrial interfaces

 Available in Industrial Temperature Range



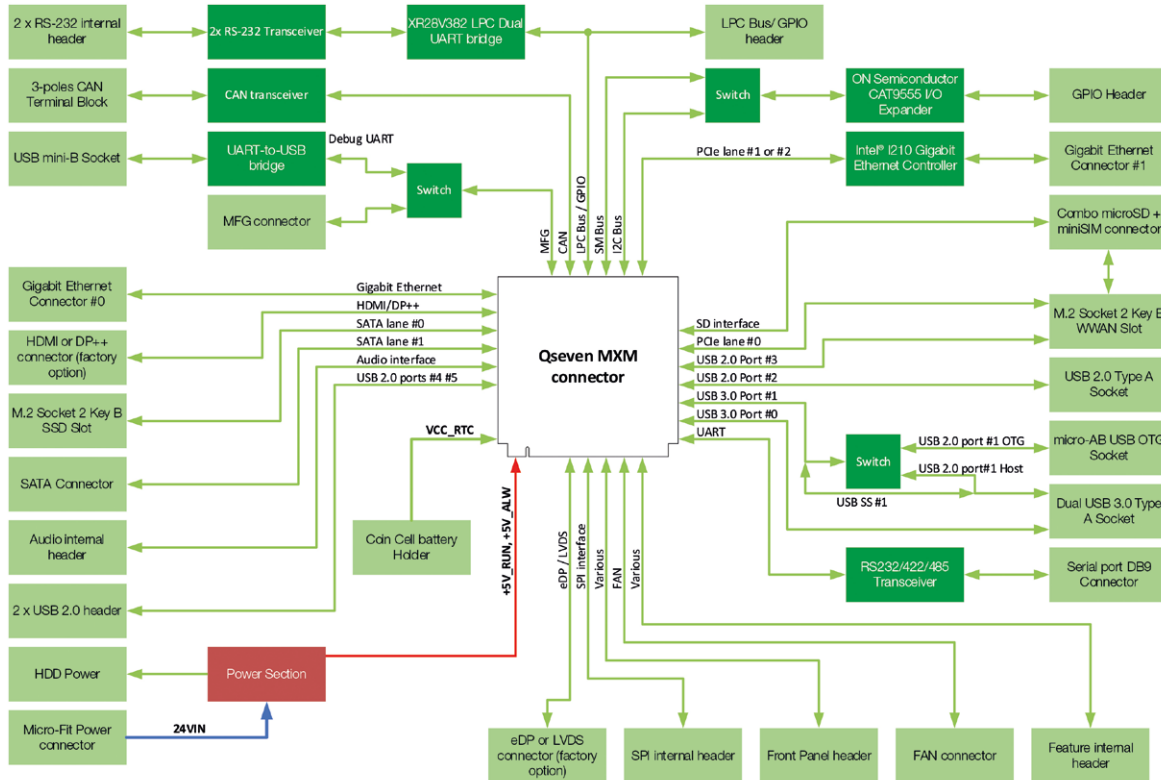
FEATURES

	Video Interfaces	LVDS Single/Dual Channel 18-24-bit + HDMI® Connector or 2 x eDP connectors + Multimode Display Port		Power Supply	24V _{DC} ±5% through Micro-fit 2x2 power connector Coin cell battery Holder for CMOS and RTC
	Mass Storage	1 x SATA connector with HDD Power connector 1 x M.2 Socket 2 2242 Key B SSD 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 1 x M.2 Socket 2 2242/3042 Key B Slot for WWAN Modem Modules, connected to on-board miniSIM slot		Dimensions	146 x 102 mm (5.75" x 4.02")
	USB	2 x Superspeed USB 5Gbp Host port on Dual Type-A socket 1 x USB 2.0 Host ports on double Type-A sockets 1 x USB 2.0 Host on internal M.2 Socket 1 x USB 2.0 OTG port on micro-AB socket (USB port shared with USB 2.0 lanes of 1 x USB 3.0)	*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.		
	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			

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BLOCK DIAGRAM



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DATA ORCHESTRATION

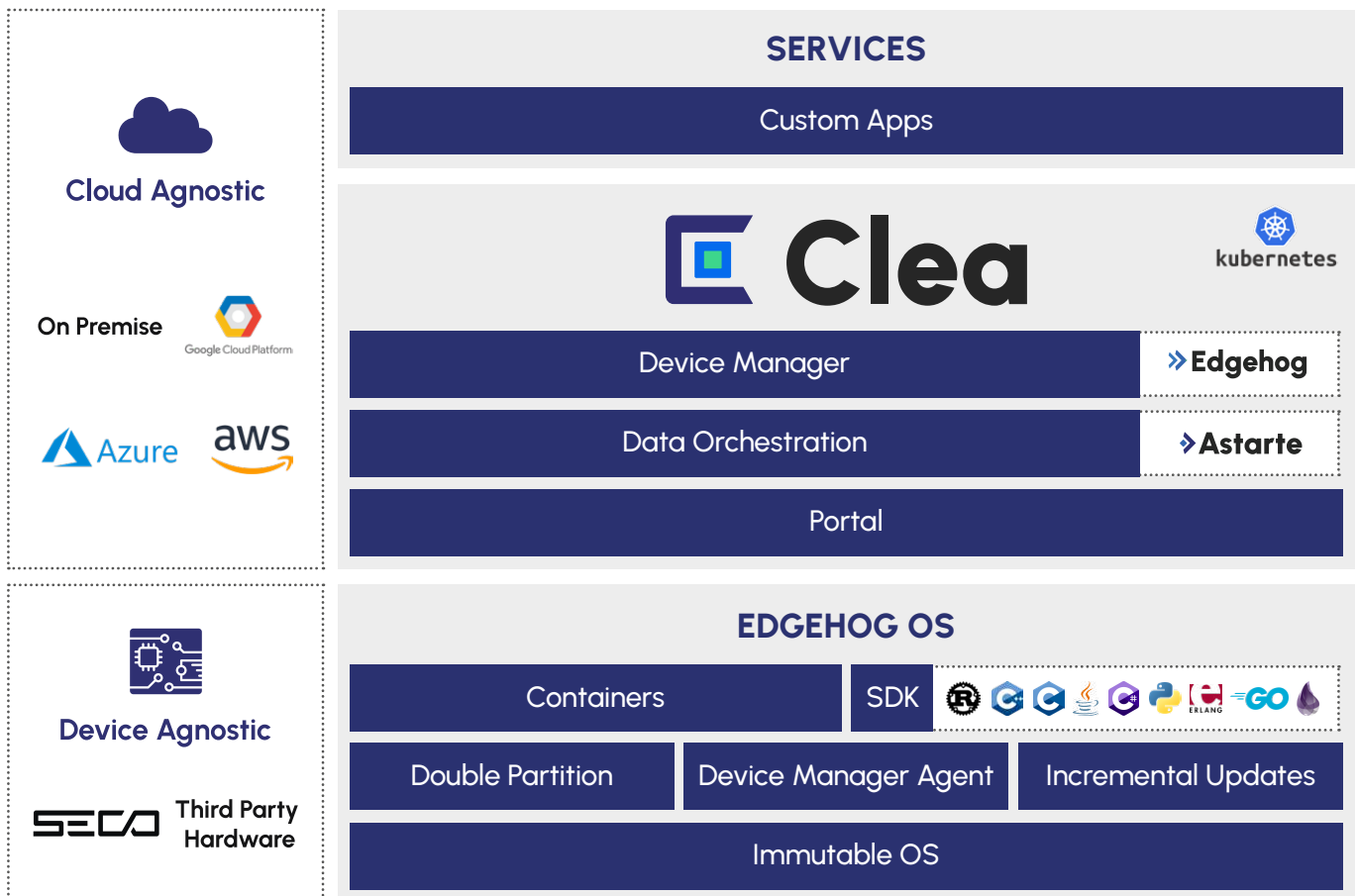
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

DEVICE MANAGER

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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.



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CLEA DOCS

