



Q7-C26

Qseven® Rel. 2.1 compliant module with NXP i.MX 8 Applications Processors

Take advantage of the wide scalability offered by Qseven® form factor and the i.MX 8 family



DEVELOPMENT SAMPLING PRODUCTION

HIGHLIGHTS

CPU
NXP i.MX 8 Applications Processors

CONNECTIVITY
1x USB 3.0; PCI-e x1 Gen3; CSI camera connector; Boot select signal

GRAPHICS
Integrated GPU, supports 2 independent displays

MEMORY
soldered down LPDDR4-3200 memory

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Biomedical/
Medical devices



Digital Signage -
Infotainment



Industrial
automation and
control



Smart Vision



Vending

FEATURES

Processor	NXP i.MX 8 Family: <ul style="list-style-type: none"> i.MX 8QuadMax - 2x Cortex®-A72 cores + 4x Cortex®-A53 cores + 2x Cortex®-M4F cores i.MX 8QuadPlus - 1x Cortex®-A72 cores + 4x Cortex®-A53 cores + 2x Cortex®-M4F cores i.MX 8Quad - 4x Cortex®-A53 cores + 2x Cortex®-M4F cores 	Audio	I2S Audio Interface
Memory	Soldered Down LPDDR4-3200 memory, 64-bit interface	Serial Ports	1x UART Tx/Rx/RTS/CTS 1x CAN Bus (TTL level)
Graphics	Integrated Graphics Processing Unit, supports 2 independent displays. Embedded VPU, supports HW decoding of HEVC/H.265, AVC/H.264, MPEG-2, VC-1, RV9, VP8, H.263 and MPEG4 part, HW encoding of AVC/H.264 Supports OpenGL ES 3.1, Open CL 1.2, OpenGL 3.x, DirectX 11	Other Interfaces	CSI camera connector 2x I2C Bus SPI interface 8 x GPI/Os Boot select signal Power Management Signals Watchdog
Video Interfaces	HDMI 2.0a or DP 1.3 interface, supporting HDCP 2.2 Dual Channel or 2 x Single Channel 18-/ 24-bit LVDS interface	Power Supply	+5V _{DC} ±5% +3.3V_RTC
Video Resolution	HDMI: Up to 4Kp60 LVDS: Up to 1080p	Operating System	Linux Yocto Android
Mass Storage	1x SATA Gen3 interface (alternative to 1x PCI-e x1 port) eMMC 5.1 drive soldered on-board SD 4-bit interface QSPI Flash soldered-on-board	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Networking	1 x Gigabit Ethernet interface	Dimensions	70 x 70 mm (2.76" x 2.76")
USB	4 x USB 2.0 Host Ports 1 x USB 3.0 Host Port 1 x USB 2.0 OTG port	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
PCI-e	Up to 2x PCI-e x1 Gen3 ports		

BLOCK DIAGRAM

