

Boxed Solutions



SYS-C43-IPC Boxed solution based on NXP i.MX 8 Applications Processors

NXP i.MX 8 processors in a boxed solution for Edge Computing applications

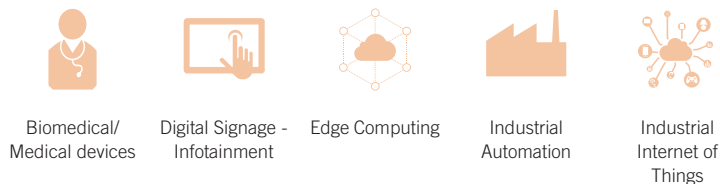


HIGHLIGHTS

CPU NXP i.MX 8 Family	CONNECTIVITY 2x GbE; 1x USB3.0; 1x USB2.0; 1x RS-232; 1x multistandard RS-485 / RS-422; Optional WiFi+BT add-on module; Optional WWAN add-on module
GRAPHICS Dual Vivante GC7000 GPU / Dual Vivante GC7000Lite GPU	MEMORY Up to 8GB LPDDR4-1600 on-board memory



MAIN FIELDS OF APPLICATION



FEATURES

Processor i.MX 8 QuadMax: Dual A72-core, Quad A53-core, Dual M4F-core i.MX 8 QuadPlus: Single A72-core, Quad A53-core, Dual M4F-core	Other Interfaces Optional 2x 12 poles terminal block connectors with the following I/O: • 2x CAN • 4x GPIOs • 4x Analog Inputs • 1x SPI • 1x I2C • 1x 5V • 1x 3.3V • 1x 12V • 3x GND Power ON Button with integrated LED microSIM slot soldered on-board for the Modem Coin cell battery holder for RTC Optional 4x SMA connectors for external WiFi / WWAN antennas Other Optional VESA 100 bracket accessory Optional DIN standard mounting plate accessory
System Memory 64-bit soldered down LPDDR4-1600 memory, up to 8GB	
Graphics 2x Graphics accelerators Vivante GC7000 / XVSX for QuadMax and GC7000Lite / XVSX for QuadPlus 1x embedded VPU, supporting H.265 (4K30) and H.264 (1080p60) decoding and H.264 (1080p30) encoding	
Video Interfaces HDMI 2.0a Tx interface	
Video Resolution Up to 4K	
Mass Storage Optional eMMC 5.1 drive on-board, up to 64GB M.2 Key B slot for optional SSD drive, up to 512GB microSD card slot (accessible from panel)	
Networking 2x Gigabit Ethernet RJ45 connectors M.2 WLAN Connectivity Slot for optional accessory WiFi + BT external module, external antennas M.2 WWAN Connectivity Slot for optional accessory Modem modules (excludes SSD Drive), external antennas	
USB 1 x USB 3.0 Host port on Type-A socket 1 x USB 2.0 Host port on Type-A socket 1 x USB 2.0 micro-AB connector (OTG)	
Serial Ports 1 x RS-232 port on DB9-M connector 1 x multistandard RS-485 / RS-422 port on DB9-M connector	
Audio Line Out + Mic In combo TRRS audio jack	
Power Supply +12V _{DC} Mini-Fit Power connector	Operating System Linux Android (planned)
Operating Temperature* 0°C ÷ +50°C	Dimensions 181 x 109 x 75 mm

*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

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



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BLOCK DIAGRAM

