Board Computer



SBC-C57

3.5" SBC with NXP i.MX 8X family of SOCs

Ideal for certified performance requirements and safety efficient



NXP i.MX 8X family of Processors

2x GbE; miniPCI-e slot; 1x USB3.0; 2x USB 2.0;



Soldered on-board LPDDR4 memory, frequency up



GC7000Lite with up to 16 Execution Units





← USB











Automation

Industrial Automation and Control

In-Vehicle Infotainment Systems

Robotics

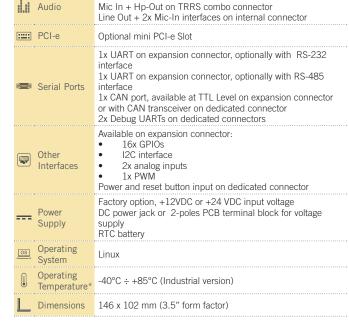
Transportation

Processor	NXP i.MX 8X family SoCs: Dual or Quad ARM Cortex®-A35 Cores + 1x Cortex® M4F core for real-time processing NXP i.MX8 QuadXplus, 4x ARM Cortex®-A35 Cores + 1x Cortex® M4F core for real-time processing NXP i.MX8 DualXplus, 2x ARM Cortex®-A35 Cores + 1x Cortex® M4F core for real-time processing
Max Cores	4+1
Memory	Soldered down LPDDR4 memory @ 1200MHz, 32-bit interface, up to 4GB
Graphics	Embedded GC7000Lite GPU Supports OpenGL 3.0, 2.1, OpenGL ES 3.1, OpenCL 1.2 Full Profile and 1.1, OpenVG 1.1, and Vulkan Embedded VPU, supports HW decoding of HEVC/H.265, AVC/H.264, MPEG-2, VC-1, RV10, VP8, H.263 and MPEG-4.2t, HW encoding of AVC/H.264 2 independent displays supported
Video Interfaces	Factory options: • eDP 4-lane interface + LVDS single Channel 18-/24-bit interface • LVDS Dual Channel / 2 x LVDS Single Channel interface
Video Resolution	Up to 1080p60
Mass Storage	Soldered onboard eMMC 5.1 Drive, up to 64GB QSPI NOR Flash soldered on-board
문 Networking	Up to 2 x Gigabit Ethernet ports On-board WiFi 802.11 a/b/g/n + BT 5.0 module, optional
	1x USB 3.0 Host ports on USB 3.0 Type-A socket

1x USB OTG Port on micro-AB connector (interface shared

with USB 2.0 interface of USB 3.0 Type-A socket)

2x USB 2.0 Host ports on Dual Type-A socket 1x USB 2.0 Host port on miniPCI-e Slot



*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 applicationspecific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.



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BLOCK DIAGRAM

