

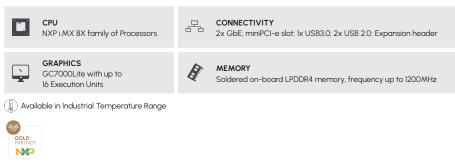
SBC-3.5-MX8X

Ideal for certified performance requirements and safety efficient



HIGHLIGHTS

Linux



MAIN FIELDS OF APPLICATION



Transportation Industrial Automation Digital Signage

FEATURES

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
A 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, RVI0, VP8, H.263 and MPEG4.2t, 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
⊷ USB	Ix USB 3.0 Host ports on USB 3.0 Type-A socket Ix 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 Ix USB 2.0 Host port on miniPCI-e Slot

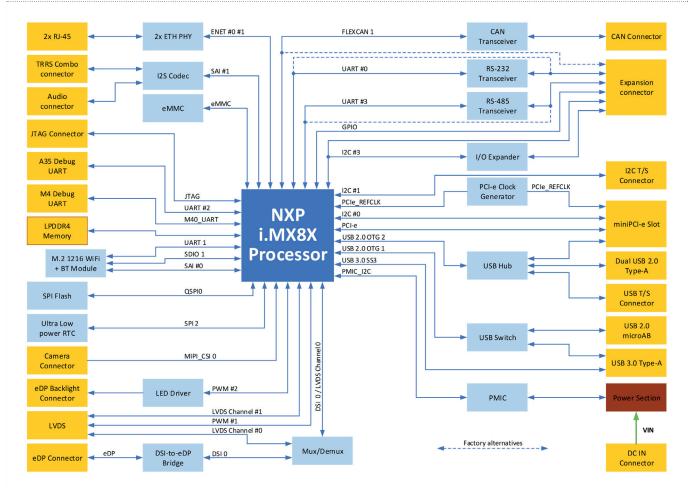
1.1	Audio	I2S Audio codec Mic In + Hp-Out on TRRS combo connector Line Out + 2x Mic-In interfaces on internal connector
:::::	PCI-e	Optional mini PCI-e Slot
c 	Serial Ports	Ix UART on expansion connector, optionally with RS-232 interface Ix UART on expansion connector, optionally with RS-485 interface Ix CAN port, available at TTL Level on expansion connector or with CAN transceiver on dedicated connector 2x Debug UARTs on dedicated connectors
	Other Interfaces	Available on expansion connector: • 16x GPIOs • 12C interface • 2x analog inputs • 1x PWM Power and reset button input on dedicated connector
	Power Supply	Factory option, +12VDC or +24 VDC input voltage DC power jack or 2-poles PCB terminal block for voltage supply RTC battery
os	Operating System	Linux
I	Operating Temperature*	-40°C ÷ +85°C (Industrial version)
L	Dimensions	146 x 102 mm (3.5" form factor)
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*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.



SBC-3.5-MX8X

BLOCK DIAGRAM





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

PORTAL

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



