



## Features



### Performance for Industrial IoT Applications

- NXP® i.MX8M Industrial Processor with 1.3 GHz Quad-core Arm Cortex®-A53 for Low-power Processing
- Up to 4GB LPDDR4 RAM
- 4K UltraHD Video
- Wide Range Power Input (9 - 36 VDC)
- Fanless Wide Operating Temperature Range -40°C to +85°C
- TPM 2.0 Supported

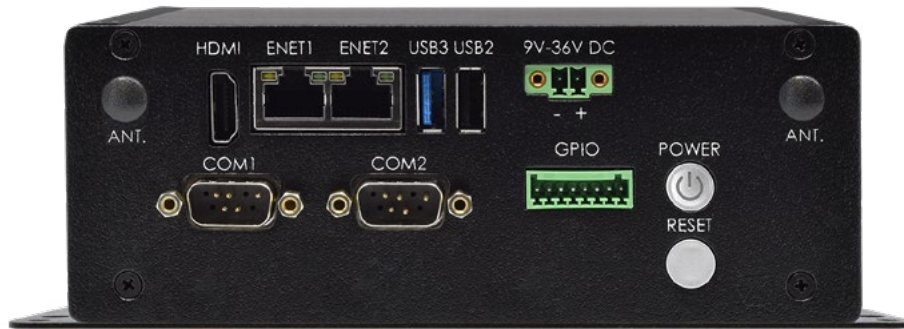
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## Specifications

System	
<b>Processor</b>	NXP® i.MX8M Industrial Processor with 1.3 GHz Quad-core Arm Cortex®-A53 for Low-power processing
<b>LAN Chipset</b>	2x Gigabit Ethernet ports (Front Panel I/O)
<b>System Memory</b>	Embedded LPDDR4 (up to 4GB)
<b>BSP</b>	UBOOT
<b>Watchdog</b>	Adjustable from 1 second to 255-minute reset
<b>TPM</b>	Hardware Security - Trusted Platform Module (TPM) 2.0 Enabled
Display	
<b>HDMI</b>	HDMI 2.0a (4096 x 2160 at 60 Hz, HDR10)
<b>Video Output</b>	4K UltraHD Video
Storage	
<b>Soldered Down</b>	eMMC
<b>Expansion</b>	MicroSD (up to 2TB)
Expansion	
<b>Mini PCIe</b>	1x Full-size Mini PCIe
I/O	
<b>USB</b>	1x USB 3.1 Gen 1 (Front Panel I/O) 3x USB 2.0 (1x Front Panel I/O)
<b>Serial</b>	2x RS-232/422/485 Serial ports
<b>GPIO</b>	6x General Purpose Input/Output (GPIO) 1x MIPI-CSI (4-Lane) 1x SPI bus (future expansion) 1x I2C bus (future expansion)

Operating System	
<b>Supports</b>	Linux, Android
Power	
<b>Power Mode</b>	AT, ATX
<b>Power Supply</b>	Wide Range 9 – 36VDC
<b>Power Connector</b>	Phoenix Contact Terminal Block Header
Environment	
<b>Operating Temp</b>	-40°C to +85°C (-40°F to +185°F)
<b>Relative Humidity</b>	10% to 95% (non-condensing)
<b>Certification</b>	C E, RoHS Compliant
Physical	
<b>Dimensions</b>	6.5 in x 4.5 in x 2.5 in (165 mm x 113 mm x 63.5 mm)
<b>Weight</b>	1.53 lbs (24.5 oz), 695 g
<b>Construction</b>	Extruded Aluminum with Heavy Duty Metal
<b>Mounting Options</b>	Wall Mounting SIDE / VESA / DIN-Rail Mounting (Optional)
Options	
<b>Config Option 1</b>	Dual Isolated CAN bus 2.0B/J1939/CAN open
<b>Config Option 2</b>	WiFi 5 Connectivity (Dual Diversity Antennas)
<b>Config Option 3</b>	Dual Isolated CAN bus 2.0B/J1939/CAN open with WiFi 5 Connectivity (Dual Diversity Antennas)
<b>Additional Storage</b>	MicroSD (up to 2TB)

## Standard Configuration



## Optional Configurations



Option 1: With CAN Bus



Option 2: With WiFi 5



Option 3: With CAN Bus + WiFi 5

## Expansion and Customization Options

WINSYSTEMS offers ancillary components and expansion options to complete your embedded computing solution. Where appropriate, WINSYSTEMS can also deliver custom designed solutions to support your unique application requirements. Contact us for more information at **+1 817-274-7553** or email [sales@winsystems.com](mailto:sales@winsystems.com).



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