



Nitrogen8M Mini

The Nitrogen8M_Mini SBC is the latest in our line of [i.MX based Nitrogen platforms](#), leveraging the recently released i.MX 8M Mini Family of applications processors from NXP. It includes an accessory kit option with a 5V Power Supply, 16GB microSD card with Linux OS, Battery, and Serial Console Cable. The Nitrogen8M_Mini is designed for mass production use with a guaranteed 10 year lifespan, FCC Pre-scan results, and a stable supply chain. Industrial temperature and conformal coating options are available. It can be modified by de-populating unused components or fully customized for cost reduction. [Contact us for more information.](#)

[HDMI Input for i.MX8 boards via MIPI-CSI using BD_HDMI_MIPI_8M](#)

[i.MX8M Mini MIPI DSI to HDMI Conversion](#)

[DB_8MM_CSI_EXP with 5MP Mini MIPI Camera Demo](#)

[Using an SSD via mPCIe on our i.MX8 Nitrogen Boards – Blog Post](#)

[VIDEO – How to Flash OS Images](#)

[Read our Make Vs. Buy Guide](#)



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Nitrogen8M Mini

\$0.00 – \$210.00

SELECT OPTIONS

CPU Name		i.MX 8M Mini
CPU Type		x4 Cortex-A53 + x1 Cortex-M4F
CPU Cores		4
CPU Clock (Max)		1.5-2.0 GHz
Memory & Storage		
RAM		2GB LPDDR4 (Up to 4GB)
eMMC		16GB (Up to 128GB)
Multimedia		
2D/3D Graphics Acceleration		GCNanoUltra for 3D, GC320 for 2D
Video Encode / Decode		1080p60 H.264, VP8/1080p60 H.265, H.264, VP8, VP9
Camera Interfaces		x1 4-Lane MIPI CSI
Display Connections		
HDMI		N/A
LVDS		N/A
RGB		N/A
MIPI DSI		x1 4-Lane (1080p60)
Networking Connections		
Ethernet		10/100/1GB
WiFi + Bluetooth		Certified 802.11ac (optional) + BT5.0
Audio Interfaces		
Headphone		x1 (WM8960)
Microphone		x1
Amplifier		2W (1W per channel)
Connectivity Ports		
I2C		x3
SPI		x1
UART		Up to 4
USB		x2 USB 2.0
SATA		N/A
RTC		x1 + battery
PCIe		x1 (Gen2 1-lane)
PoE		Optional (via daughter board)
SD / MMC		1x microSD
PCB Specifications		
Dimensions (L x W)		114.3mm x 88.9mm
Miscellaneous Specifications		
Temperature Rating		Commercial 0-70C (-40 – +85C optional)
Power Supply		5V



i.MX8M MINI SBC + CSI Camera Demo Yocto

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Programming OS Image

+

Related Info

QNX 7.0 BSP release for Nitrogen8M Mini

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High Assurance Boot (HAB) – i.MX8M edition

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MIPI-DSI to HDMI for i.MX8 boards with DB_8MM_DSIHD

+

Using balenaOS with Nitrogen8M Mini

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Mender support on i.MX8 platforms

+

FreeRTOS SDK v2.9 release for i.MX 8M platforms

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