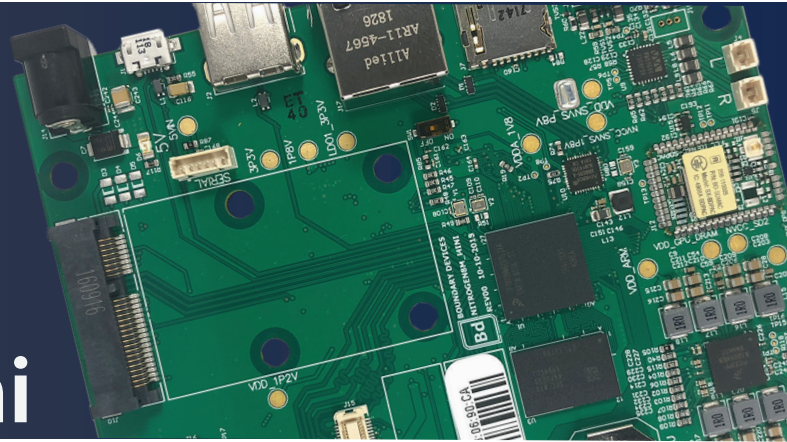


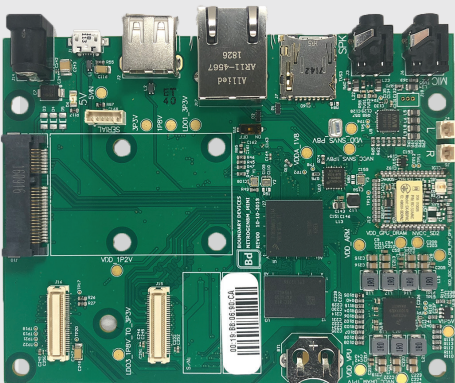
The first i.MX 8M Mini
commercial SBC designed
for the general embedded
and IoT market



NITROGEN8M_Mini

PRODUCT DESCRIPTION

Boundary Devices introduces the latest in our line of Nitrogen single board computers (SBC), the Nitrogen8M_Mini. The Nitrogen8M_Mini features NXP's i.MX 8M Mini Family of processors and is built with low-power, low-cost applications in mind. The Nitrogen8M_Mini comes populated with a robust set of components to enable rapid development and a quick path to market. Notable options include: pre-certified 802.11AC Wifi + BT module, LPDDR4, PoE Module, industrial temperature & conformal coating.



MAIN FEATURES

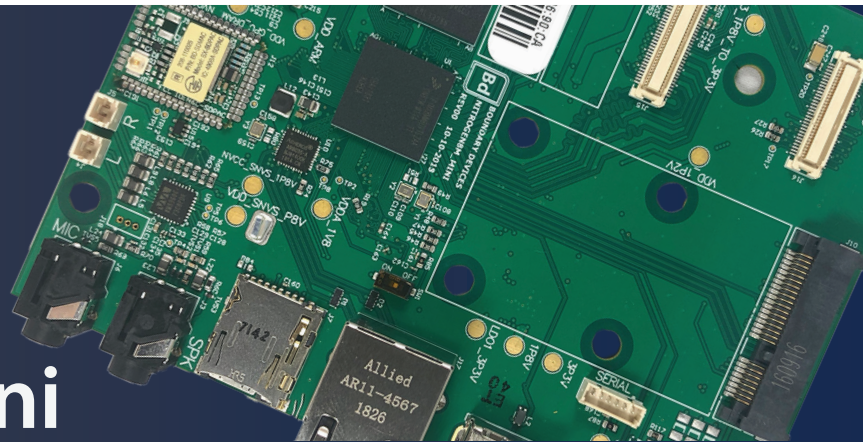
- Quad-Core processor at 1.5-2 GHz
- ARM® Cortex-A53 (64-bit) + Cortex-M4
- 2GB of LPDDR4 —Optional 4GB version
- 8GB of on-board eMMC—Expandable up to 128GB
- NXP's PF8100 PMIC (for low-power consumption)
- 1080p Video Capabilities
- 4-Lane MIPI-DSI Display (up to 1080p)
- Camera Inputs (4-Lane MIPI-CSI)
- 10/100/1G Ethernet
- Optional pre-certified WiFi (802.11ac) & Bluetooth (BT 4.1) module
- Optional PoE module available
- GC320 for 2D & GCNanoUltra for 3D graphics
- Stereo Audio (Headphone + Speaker)
- I2C/SPI/GPIO
- PCIe (x1 on-board, x1 via daughterboard)
- Android, Ubuntu, Buildroot, Debian and Yocto
- Industrial Temperature and Conformal Coating available
- Customization available

OS SUPPORT



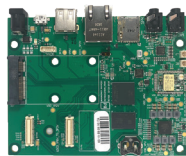
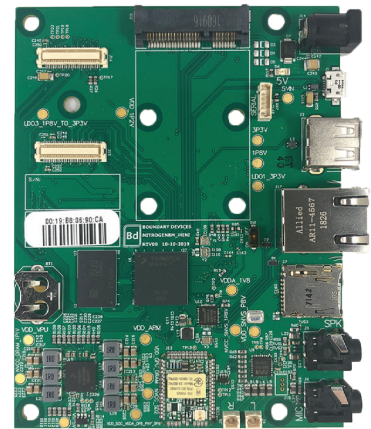
Nitrogen8M_Mini Ecosystem of Products and Compatible Accessories

NITROGEN8M_Mini



ECOSYSTEM FEATURES

- Nitrogen8M_Mini single board computers
- Nitrogen8M_Mini system on modules + carrier board
- 5MP MIPI camera module available
- PoE Module Add-on
- Compatible with Displays up to 1080p
- Nitrogen8M_Mini can be integrated with any display 3.5" and larger
- Customized Nitrogen8M_Mini SBC & SOM + Carrier Board (Available on request)



Nitrogen8M_Mini



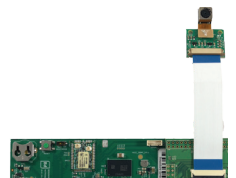
8" MIPI Display



7" LVDS Display



10.1" LVDS Display



5MP MIPI Camera

PART NUMBERS

NIT8MQ_Mini_2r8e
NIT8MQ_Mini_2r8e_BRD
NIT8MQ_Mini_2r8eWB
NIT8MQ_Mini_2r8eWB_BRD

BD080MCC1
BD080MCC1_NoPlexi
BD080MCC1_DSP

BD070LIC2_8M
BD070LIC2_8M_NoPlexi
BD070LIC2_DSP

BD101LCC2_8M
BD101LCC2_8M_NoPlexi
BD101LCC2_DSP

Nit8M_5MP_MIPI

SPECIFICS

i.MX 8M Mini Quad
2GB LPDDR4
8GB On-Board eMMC

8" Leadtek Display
1200x1920
Integrated Touchscreen

7" Tianma Display
1280x800
Integrated Touchscreen

10.1" IVO Display
1280x800
Integrated Touchscreen

5MP OV5640 Camera
MIPI Interface
i.MX 8M Daughterboard

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[APLP4-A10-08128](#) [MI977F-Q27](#) [BBBLUE](#) [IB811F-I30](#) [DFR0470-ENT](#) [Nit6Q_i](#) [M2M \(TELIT\)](#) [RELAY](#) [PROFESSIONAL](#)
[GCS22.2.080.2.2.I](#) [GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-](#)
[OLINUXINO-LIME2-E16GS16M](#) [A20-OLINUXINO-MICRO-S16M](#) [BANANA PI BPI-W2](#) [T2-OLINUXINO-LIME2-S16M-IND](#) [T2-](#)
[OLINUXINO-MICRO-E8GS16M-IND](#)