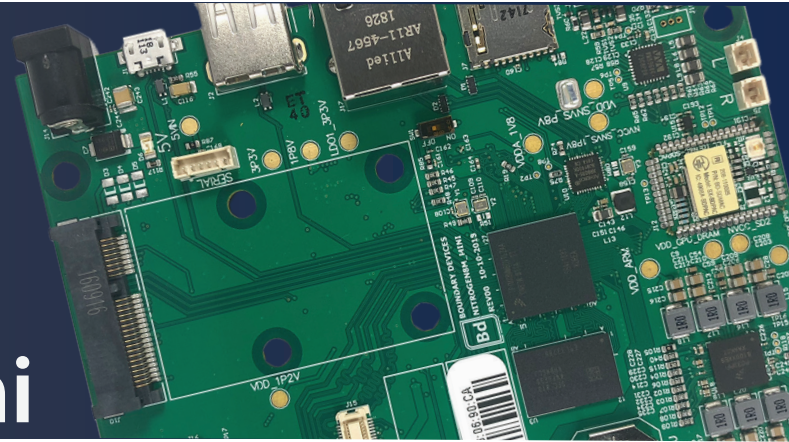


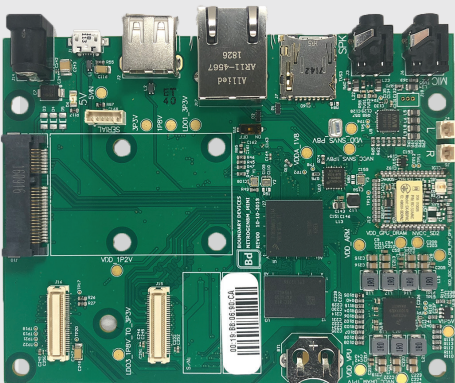
The first i.MX 8M Mini
commercial SBC designed
for the general embedded
and IoT market



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

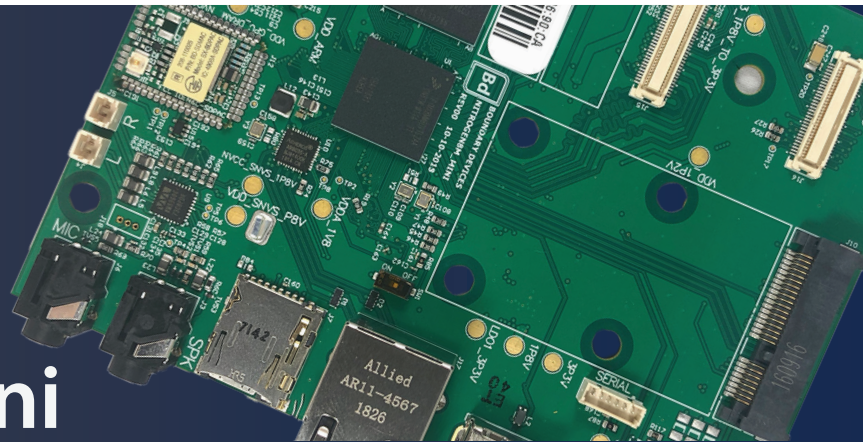
- Quad-Core processor at 1.5-2 GHz
- ARM® Cortex-A53 (64-bit) + Cortex-M4
- 2GB of LPDDR4 —Optional 4GB version
- 8GB of on-board eMMC—Expandable up to 128GB
- NXP's PF8100 PMIC (for low-power consumption)
- 1080p Video Capabilities
- 4-Lane MIPI-DSI Display (up to 1080p)
- Camera Inputs (4-Lane MIPI-CSI)
- 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



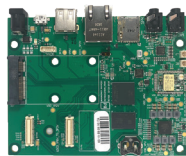
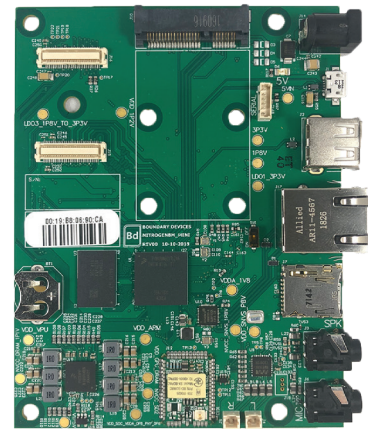
Nitrogen8M_Mini Ecosystem of Products and Compatible Accessories

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



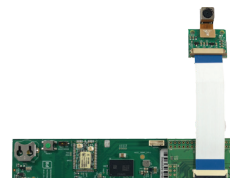
8" MIPI Display



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Interface Development Tools](#) category:

Click to view products by [Crowd Supply](#) manufacturer:

Other Similar products are found below :

[CY4607M](#) [PEX 8748-CA RDK](#) [DP130SSEVM](#) [ISO3086TEVM-436](#) [SP338EER1-0A-EB](#) [ADM00276](#) [ADP5585CP-EVALZ](#) [PEX8724-CA RDK](#) [PEX 8732-CA RDK](#) [PEX8747-CA RDK](#) [AS8650-DB](#) [MLX80104 TESTINTERFACE](#) [I2C-CPEV/NOPB](#) [ISO35TEVM-434](#) [KIT33978EKEVB](#) [XR17D158CV-0A-EVB](#) [XR17V358/SP339-E4-EB](#) [XR17V358/SP339-E8-EB](#) [XR18910ILEVB](#) [XR22804IL56-0A-EB](#) [ZSC31050KIT V3.1](#) [ZSC31150KIT V1.2](#) [SCRUBBER-EVM](#) [SI838XISO-KIT](#) [73931-3022](#) [XIO2200AEVM](#) [XIB-E](#) [XBIB-U-SP](#) [TW-DONGLE-USB](#) [EVAL-ADM2483EBZ](#) [EVAL-ADM2491EEBZ](#) [ATUSB-PCB-80146](#) [EVB-USB83340](#) [MAX9921EVKIT](#) [MAXREFDES23DB#](#) [MAX9291COAXEVKIT#](#) [MAX3535EEVKIT+](#) [MAX3100EVKIT](#) [MAX13235EEVKIT](#) [MAX14970EVKIT#](#) [MAX14826EVKIT#](#) [3298](#) [XR21B1424IV64-0A-EVB](#) [XR21B1421IL24-0A-EVB](#) [XTIB-U](#) [XR17D152CM-0A-EVB](#) [XR22802IL56-0A-EB](#) [9291COAXEVKIT#](#) [XTIB-R](#) [SERDESUR-43USBNOPB](#)