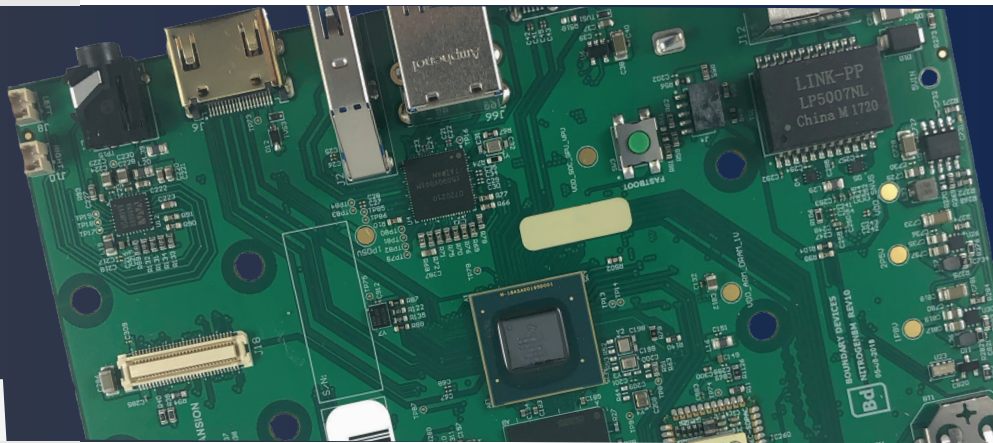


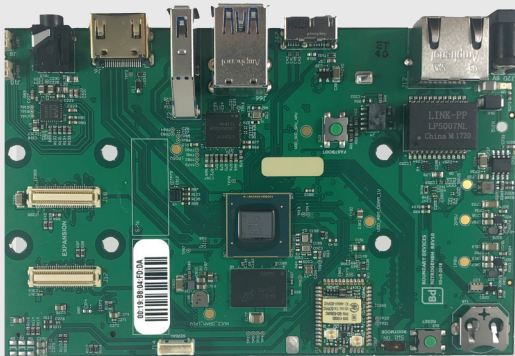
Named a Top-10 single  
board computer of 2018  
by EETimes

# NITROGEN8M



## PRODUCT DESCRIPTION

Boundary Devices introduces the latest in our line of Nitrogen single board computers (SBC), the Nitrogen8M. The Nitrogen8M features NXP's i.MX 8M Family of applications processors and is built for a broad range of embedded applications. The Nitrogen8M comes populated with a robust set of components to enable rapid development and a quick path to market. Notable options include USB 3.0, pre-certified 802.11AC Wifi+BT module, LPDDR4, industrial temperature and conformal coating.



## MAIN FEATURES

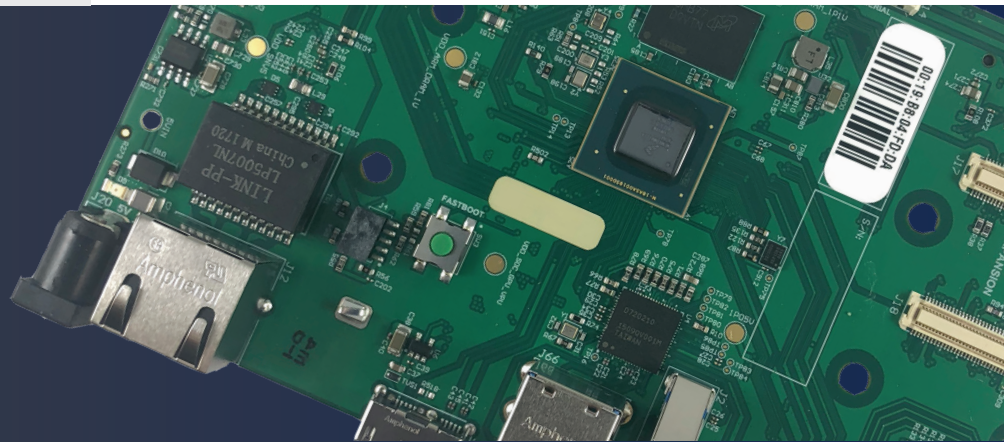
- Dual/Quad/QuadLITE-Core processors at 1.5 GHz
- ARM® Cortex-A53 (64-bit) + Cortex-M4
- 2GB of LPDDR4 —Optional 1GB and 4GB versions
- 8GB of on-board eMMC—Expandable up to 128GB
- Four USB 3.0 Ports (x3 Hosts + x1 USB OTG)
- 4K + HDR Video Capabilities
- 4-Lane MIPI-DSI Display (up to 1080p)
- Dual Camera Inputs (4-Lane MIPI-CSI)
- 10/100/1G Ethernet
- Pre-Certified WiFi (802.11ac) & Bluetooth (BT 4.1) module
- High Performance GPU3D (GC7000)
- 4Kp60 H.265 and VP9 Video Decode/Encode
- Stereo Audio (Headphone + Speaker)
- I2C/SPI/GPIO
- HDMI v2.0 (4K@60)
- PCIe (x1 on-board, x1 via daughterboard)
- Android, Ubuntu, Buildroot, Debian and Yocto
- Industrial Temperature and Conformal Coating available
- Customized Versions Available

## OS SUPPORT



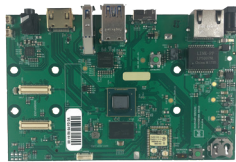
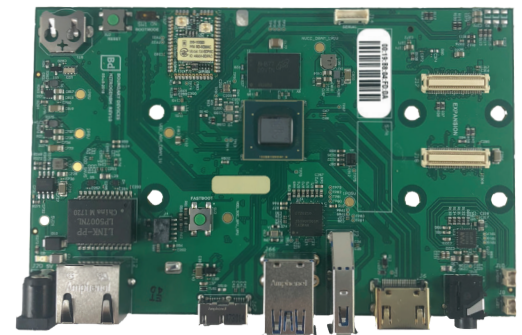
## Nitrogen8M Ecosystem of Compatible Products

# NITROGEN8M



### ECOSYSTEM FEATURES

- Nitrogen8M single board computers
- Nitrogen8M system on modules
- Nitrogen8M carrier board
- Compatible with Displays up to stunning 4K resolution
- 5MP MIPI camera module available
- Nitrogen8M can be integrated with any display 3.5" and larger
- Customized Nitrogen8M SBC, SOM, and carrier boards  
(Available on request)



**Nitrogen8MQ**



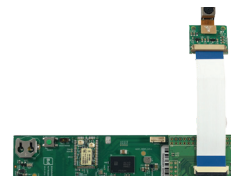
**8" MIPI Display**



**7" LVDS Display**



**10.1" LVDS Display**



**5MP MIPI Camera**

	Nitrogen8MQ	8" MIPI Display	7" LVDS Display	10.1" LVDS Display	5MP MIPI Camera
<b>PART NUMBERS</b>	Nit8MQ_2r8eWB Nit8MQ_2r8eWB_BRD	BD080MCC1 BD080MCC1_NoPlexi BD080MCC1_DSP	BD070LIC2_8M BD070LIC2_8M_NoPlexi BD070LIC2_DSP	BD101LCC2_8M BD101LCC2_8M_NoPlexi BD101LCC2_DSP	Nit8M_5MP_MIPI
<b>SPECIFICS</b>	i.MX 8M 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
<b>Qty 500 Price</b>	\$165	\$94	\$102	\$144	\$75

CONTACT US FOR MORE INFORMATION ON CUSTOMIZATIONS, PRICING, AND VOLUME DISCOUNTS