

# NX8MM-D168



- ◆ i.MX8M Mini
- ◆ Quad core Cortex-A53 1.6/ 1.8GHz
- ◆ 3D GPU / 1080p60 VPU
- ◆ 10+ years life cycle
- ◆ Industrial/Commercial Grade

Specification	
<b>CPU</b>	NXP i.MX8M Mini Quad, 4 x Cortex-A53 1.6GHz NXP i.MX8M Mini Quad, 4 x Cortex-A53 1.8GHz
<b>GPU</b>	GCNanoUltra for 3D acceleration GC320 for 2D acceleration
<b>VPU</b>	Decode: 1080p60, H.265, H.264 Encode: 1080p60, H.264
<b>Co-CPU</b>	Cortex-M4
<b>RAM</b>	Onboard LPDDR4 1GB/2GB/4GB
<b>Storage</b>	Onboard eMMC 4GB ~ 64GB, MLC / SLC
<b>Display</b>	MIPI-DSI, 4 data lanes, up to 1920x1080 60Hz
<b>Camera</b>	MIPI-CSI, 4 data lanes
<b>Ethernet</b>	Gigabit Ethernet x 1
<b>Audio</b>	Up to 3 x I2S/SAI , S/PDIF input/output
<b>PCIe</b>	Gen 2.1 PCIe x 1
<b>USB</b>	USB 2.0 x 2
<b>UART</b>	Up to 4 x UART
<b>eMMC/SDIO</b>	Up to 2 x eMMC/SD/SDIO
<b>SPI</b>	Up to 3 x SPI
<b>I2C</b>	Up to 3 x I2C
<b>PWM</b>	Up to 4 x PWM
<b>GPIO</b>	Up to 40 x GPIO
<b>Operating Temp.</b>	0 to +70°C / -20 to +70°C / -40 to 85°C
<b>Relative humidity</b>	10% to 90%
<b>Dimensions</b>	55mm x 35mm
<b>Weight</b>	8 g
<b>Connector</b>	168 pins. 2 x 2 x 42 , pitch 1.27mm, Female
<b>Power input</b>	+5V
<b>OS Support</b>	Yocto Linux, Android

## Ordering Information

NX8MM-D168-	4	2	C	S	E
					C: 0~70°C(1.8GHz) E: -20~70°C(1.6GHz) X: -40~85°C(1.6GHz)
					eMMC S: SLC M: MLC
					eMMC A : 4GB B : 8GB C : 16GB D : 32GB E : 64GB
					DRAM 1 : 1GB 2 : 2GB
					CPU 4 : Quad Core 2 : Dual Core

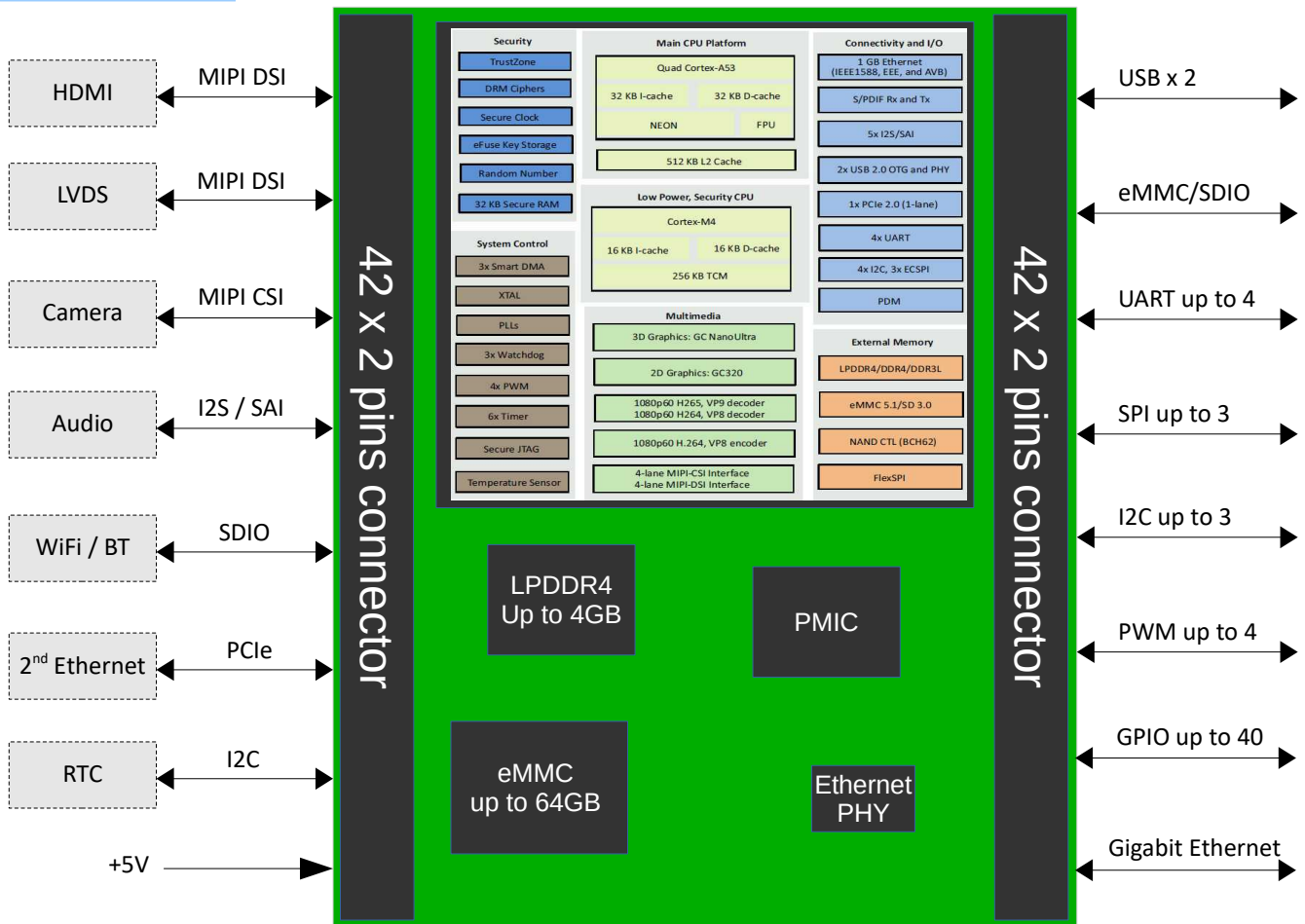
- \* 6-weeks carrier board design service is available.
- \* Conformal coating and Underfill service is available.



Evaluation Kit : EBOX I.MX8M

# NX8MM-D168

## Block Diagram



## Dimension

