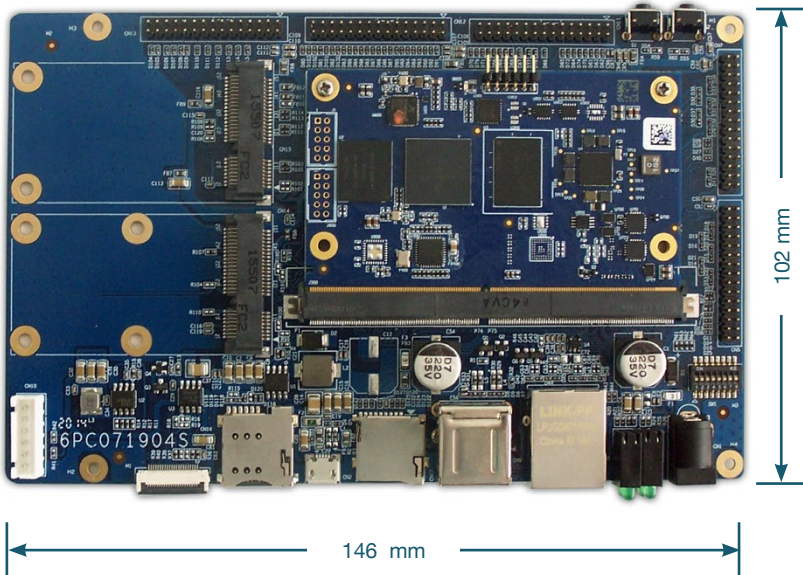


SBC MINA iMX8M



Processor

NXP i.MX8M MINI Cortex™-53 Quad Core

Software

LINUX kernel 4.14 / Yocto Sumo / Ubuntu 18.04



Application areas



INDUSTRIAL



AUTOMOTIVE



MEDICAL

SBC MINA iMX8M

MINA Single Board Computer SBC built upon the NXP i.MX8M Mini embedded multicore applications processor. It's standard 3,5" and SMARC 2.0 form factor guarantees the complete modularity of the solution.



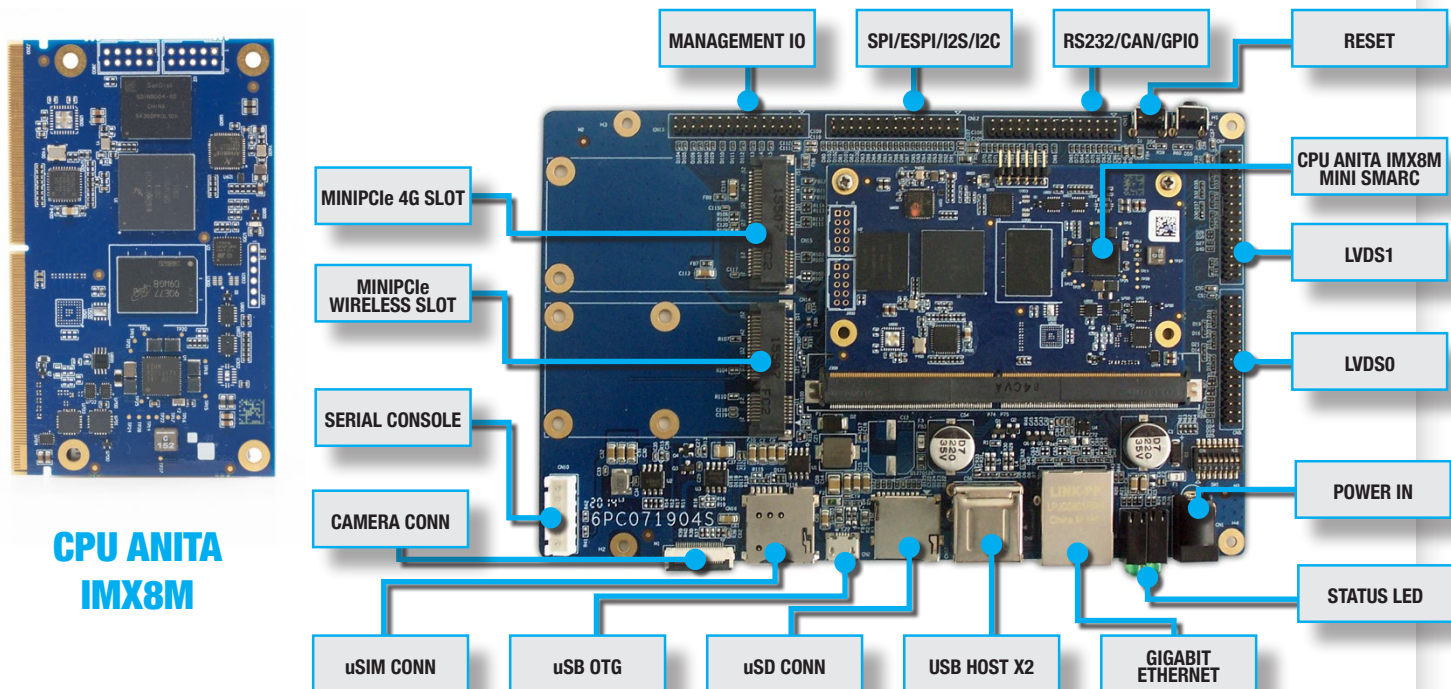
Features of the CPU module.

Below are the principal Features of the Module.

CPU	
CPU iMX8M Mini	
CPU type Cortex™-53	
Cores x4	
Core x1 Cortex M4	
CPU Clock (Max) 1800Mhz	
STORAGE	
8 Gbyte eMMC	
MEMORY	
up to 4Gbyte DDR4L	
MULTIMEDIA	
GC320 2D accelerator + GCNanoUltra 3D accelerator Embedded VPU (not for Lite processors), able to offer:	
<ul style="list-style-type: none"> • VP9, HEVC/H.265, AVC/H.264, VP8 HW Decoding • AVC/H.264, VP8 HW encoding 	
OpenGL ES 2.0, OpenVG 1.1 support	
PERIPHERALS	
uSD MMC x1	2 USB Host ports
USB Host/ device x2 2 USB Host, 1x USB OTG	2x LVDS Connector
UART x 2 RS232, 2X RS485	1x eDP Connector
I2C x1	1xuSD Connector
SPI x2	2x CAN 2.0
RTC x1 (ON CPU)	1x MIPI CSIx4 Connector
Gigabit Ethernet x 1	1xMiniPCI Connector for WiFi Wireless Module
GPIOs x36	1xMiniPCI Connector for 4G Module
1x Debug UART TTL	

SOFTWARE SUPPORT
LINUX kernel 4.14; Yocto Sumo; Ubuntu 18.04
MECHANICAL SPECIFICATIONS
102 x 146 mm
ELECTRICAL SPECIFICATIONS
Power Supply 9-36VDC
Consumption 200mA
TEMPERATURE SPECIFICATIONS
Extended temperature (-20° a 70°)
LONGEVITY
2036

BLOCK DIAGRAM MINA SBC



**CPU ANITA
iMX8M**