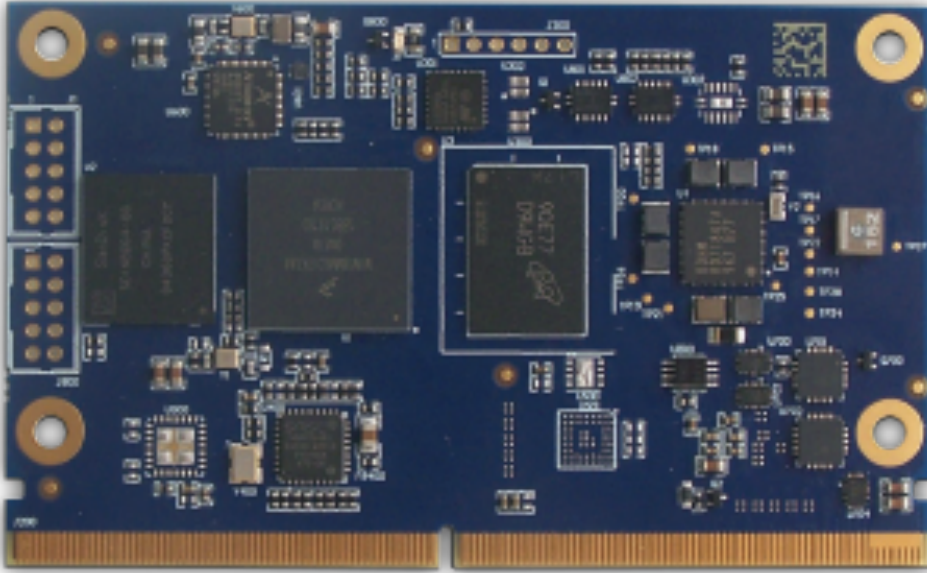


Anita i.MX8 Mini



Processor:

Freescale iMX8M Mini Quad
Cortex A53 + M4

Software:

Linux, Android, Yocto



Linux

yocto
PROJECT

android

Applications

- Medical
- Automotive
- Industrial
- Multimedia

Anita i.MX8M Mini Smarc 2.0 Module

The Anita i.MX8M Mini CPU I.MX8M Mini general-purpose system on module compliant with SMARC 2.0. Designed to work in Industrial, Automotive and consumer environment.

Main Features:

- Scalable ARM performance with up to 4x 1.8GH Cortex-A53 and 1x Cortex-M4F
- 3D Graphics with Full HD resolution
- MIPI CSI-2 camera interface
- Extended longevity up to 15 years

Anita i.MX8 Mini

FEATURES OF THE SBC MINA i.MX8M SOM:

Formfactor	SMARC Specifications 2.0 82X50 mm ²			
CPU	NXP i.MX8M Mini ARM Processor Cores			
	Commercial	ARM Cortex-A53	ARM Cortex-A53	GPU
	i.MX 8M Mini Quad	4 x 1.8GHz	1x 400MHz	1x GC NanoUltra 3D Graphics
	i.MX 8M Mini Dual	2 x 1.8GHz	1x 400MHz	1x GC NanoUltra 3D Graphics
	i.MX 8M Mini Solo	1 x 1.8GHz	1x 400MHz	1x GC NanoUltra 3D Graphics
	Industrial			
	i.MX 8M Mini Quad	4 x 1.6GHz	1x 400MHz	1x GC NanoUltra 3D Graphics
	i.MX 8M Mini Dual	2 x 1.6GHz	1x 400MHz	1x GC NanoUltra 3D Graphics
	i.MX 8M Mini Solo	1 x 1.6GHz	1x 400MHz	1x GC NanoUltra 3D Graphics

DRAM	Up to 4 GByte onboard LPDDR4 memory 3200 MT/s
Ethernet	1x Gigabit Ethernet
I/O Interfaces	5x USB 2.0 (shared with 1x USB OTG client) 1x PCIe 2.0 3x SDIO 3.0 3x I ² C Bus 2x SPI up to 3x UART (1x with handshake GPIOs)
Storage	eMMC 5.1 up to 128 GByte
Sound	2x I ² S Hi Res Audio 32-bit up to 384KHz with DSD512 and TDM support
Graphics	Integrated in NXP i.MX 8M Mini Series GC NanoUltra 3D GPU one display with up to 1080p video decoding (H.265, H.264, VP8/9) up to 1080p video encoding (H.264, VP8) Graphics GPU with 1 shader core Up to 6.4GFlops GC328 2D Graphics GPU ES 2.0 OpenVG 1.1
Display	Interfaces 1x dual channel 24bit LVDS through bridge (default) 1x eDP 1.4 1x MIPI-DSI 4-lanes (shared with LVDS)

Embedded Features	Watchdog Timer I ² C bus 400 kHz JTAG debug interface Real Time Clock
Security	High Assurance Boot support SRTC SJTAG TrustZone AES-256, RSA-4096, SHA-256, 3DES, DES, ARC4, MD-5 Secure Real Time Clock (RTC) eFuse Key Storage True Random Number Generator (RNG) 32 KB Secure RAM
Boot Loader	U-Boot boot loader
Operating Systems	Linux Yocto Android
Power Consumption	TBD
Temperature	Industrial: Operating: -40 to +85ÆC Storage: -40 to +85ÆC Commercial: Operating: 0 to +60ÆC Storage: -40 to +85ÆC
Humidity	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.