GM310-8MM 🚿



KEY FEATURES



ARM-Based System

Support Yocto Linux 2.5



Data Sustaining

NVRAM 256KB and retain data at least 1 Years during AC off



High Security

Reliable Data Security (RSA key, SHA256, TPM 2.0)

Rich I/O Connectivity

2 GbE, 2 COM, 3 USB 2.0, 1 Line out, 1 uSD

F©CE



SPECIFICATION

SYSTEM	Processor	NXP i.MX 8M mini applications processors NXP i.MX 8M mini Quad Cortex-A53 1.8GHz (Commercial)		
	Memory	1GB Memory Down (up to 4GB) Single Channel LPDDR4		
GRAPHICS	Controller	2D-GC320 3D-GC NanoULTRA		
	Feature	OpenGL [®] ES 2.1		
	reature	VPU Decode: 1080p60 HEVC, H.264, VP9, VP8 VPU Encode: 1080p60 H.264, VP8		
	Display	1 x LVDS (HDMI by request)	Resolution supports up to 1920 x 1080 @60Hz	
STORAGE	Interface	Support eMMC 5.1 8GB on board		
EXPANSION	Interface	1 x Mini-PCle Support Full/Half Size Wifi + BT / LTE		
AUDIO	Audio Codec	Cirrus Logic WM8524		
ETHERNET	Controller	1 x RTL8111 Ethernet (10/100/1000Mbps)		
LED	Indicators	1 x Status LED		
1/0	Ethernet	2 x GbE (RJ-45)		
1,0	Serial	1 x RS-232/422/485 (Header)		
	ocitai	1 x RS-232 (Header)		
	USB	2 x USB 2.0		
	005	1 x USB 2.0 (Right Angle)		
	Display	1 x LVDS (HDMI by request)		
	Audio	1 x Header (Line-out)		
	Cooling	Fanless		
GAMING	NVRAM	256KB		
		Coin Battery backup to Retain Data for 2 years during AC off		
	DI/DO	4-bit Digital Input		
		4-bit Digital output		
SECURITY	ТРМ	TPM 2.0		
POWER	Туре	12V DC IN		
	Connector	4-pin Micro-Fit header		
OS SUPPORT	Linux	Linux Yocto 2.5 (Kernel 4.14.98)		
ENVIRONMENT	Operating Temperature	-5~60°C		
	Storage Temperature	- 20~85°C		
	Relative Humidity	5%~90%		
MECHANISM	Mounting	Wall Mount		
	Dimensions (W x H x D)	143mm x 100 mm x 35 mm		
	Weight	0.45 kg		
STANDARDS AND	Shock	Operation:		
CERTIFICATIONS	SHOCK	IEC 60068-2-27 Test Ea: Shock test Half-sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times) Non-Operation: IEC 60068-2-27 Test Ea: Shock test Half-sine, 5G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)		
	Vibration	Operation: IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test Random,1Grms @ 5~500 Hz, 30min. Non-Operation: IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep size 2 Grms @ 10, 500 Hz, 20min		
		Sweep sine, 2Grms @ 10~500Hz, 30min.		
	Certifications	CE, FCC class A (ongoing)		