



MXM Series ARM9/ARM11/XSCALE Based Computer on Module

Software

- Linux 2.6.25
- WinCE 6.0
- System Utilities

Hardware Features

- ARM9/ARM11/XSCALE based SOC
- 3~4 x RS232s Interface
- 1 x CompactFlash Slot
- 1 x IDE Interface
- 1 x SD Interface (WinCE only)
- 2 x USB Hosts Interface
- 1 x 10/100Mhz Ethernet Interface
- LCD Interface (Up to 1280x1024)
- ARM/XSCALE Bus Interface
- AC97 Audio Interface

An embedded ARM/XSCALE computer on module is compact in size (66mmx55mm) and steers all interfaces needed in a modern embedded device to the 242-pin MXM connectors and access to onboard I/O subsystems is achieved through an application-specific carrier board to fit any custom housing and enclosure. They are designed for mobile/stationary computers in high performance but require low power consumption and space critical embedded systems.

The small in size makes system integrators and manufacturers flexible in designing their product line with different shapes and fast time to market. All drivers are well done and users only need to focus on their domain oriented application. To learn more about how our computer on module is going to help you, please contact Embedian (www.embedian.com).

Features

Product Model		MXM-7110/7114	MXM-8310	MXM-6410
				
OS Support	Linux	Linux Kernel 2.6.18 and Debian ARM Linux	Linux Kernel 2.6.25 and Debian ARM Linux	Linux Kernel 2.6.25 and Debian ARM Linux
	WinCE	WinCE 5.0	WinCE 6.0	WinCE 6.0
System Utilities		Software/Firmware Update, Flash Writer, FTP Server, FTP Client, WGet, Tar, gcc, TFTP Download.	Software/Firmware Update, Flash Writer, FTP Server, FTP Client, WGet, Tar, gcc, TFTP Download.	Software/Firmware Update, Flash Writer, FTP Server, FTP Client, WGet, Tar, gcc, TFTP Download.
Electrical Features	CPU	Samsung S3C2440A	Intel/Marvel PXA320	Samsung S3C6410
	Core	ARM920T	XSCALE	ARM1176JZF-S
	Speed	400Mhz	667/806Mhz	533/667Mhz + H/W MPEG Codec
	Bus Speed	133Mhz	260Mhz	266Mhz
	DRAM Type	SDRAM	DDR	DDR II
	I/O	3 x RS232s, 2 x USB hosts 1.1, 1 x 10/100 Ethernet, GPIOs	3 x RS232s, 1 x USB hosts 2.0, 1 x 10/100 Ethernet, GPIOs	4 x RS232s, 1 x USB hosts 2.0, 1 x 10/100 Ethernet, GPIOs
	Graphic	CPU internal or SM502	CPU internal	CPU internal (independent VRAM)
	Others	LCD Interface, IDE Interface	256KB L2 Cache, LCD Interface, IDE Interface	Encoding and decoding of MPEG-4/H.263/H.264 up to 30fps@SD, LCD, IDE Interface
	Expansion	CF, USB, SD (WinCE only)	CF, USB, SD (WinCE only)	CF, HDD, USB, SD (WinCE only)
Power Consumption		5V@250mA (Module only)	5V@300mA (Module only)	5V@300mA (Module only)
Operation Environment	Operating Temperature	-10°C to 75°C (14°F to 167°F)	-10°C to 75°C (14°F to 167°F)	-10°C to 75°C (14°F to 167°F)
	Storage Temperature	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 167°F)	-20°C to 80°C (-4°F to 167°F)
	Humidity	0 ~ 95% relative humidity (non-condensing)	0 ~ 95% relative humidity (non-condensing)	0 ~ 95% relative humidity (non-condensing)
Physical Characters	Dimension	L x H: 66mm x 55mm	L x H: 66mm x 55mm	L x H: 66mm x 55mm
	Weight	20g	20g	20g
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