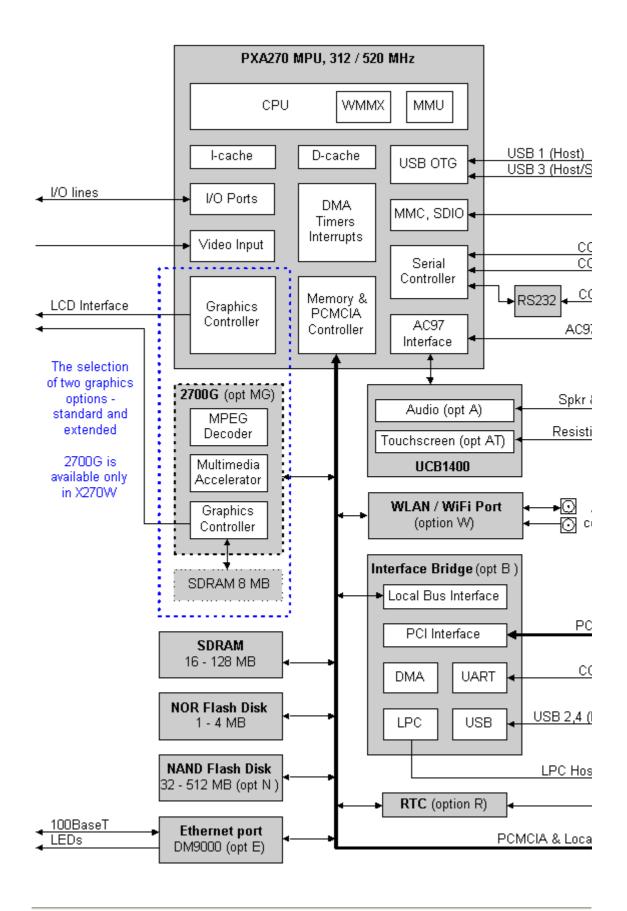


	l	
100 Mbps Ethernet port	See O/S Support Coverage Ma	
<ul> <li>Very low standby and active power consumption</li> </ul>		
<ul> <li>Two size options: 66 x 44 mm (X270L) or 68 x 58 mm (X270W)</li> </ul>		
<ul> <li>Interchangeable with other modules via CAMI connectors</li> </ul>		
<ul> <li><u>SB-X270</u> - turns the CM-X270W module into a PC/104+ single board computer</li> </ul>		
For more information, see <u>Developer Resources</u> page		

**Block Diagram** 



## CM-X270 Features

"Option" column specifies the configuration code required to have the particular feature. "+" means that the feature is available always.

## CPU, Memory and Busses

Feature	Specifications
СРИ	Intel XScale PXA270, 312 / 520 MHz, WMMX 32 KB I-cache and 32 KB D-cache, WB, 128 MB address space DMA and Interrupt controllers, Timers
RAM	16 - 128 MB, SDRAM, 100 MHz, 32-bit
NOR Flash	1 - 4 Mbytes
NAND Flash Disk	32 - 512 Mbytes
I/O Tolerance	Local Bus - 3.3V, PCI - 5V
External local bus	16-bit, variable rate up to 100 MHz
AC97 bus	AC97 / AMC97 Rev 2.1 compliant
PCI bus	32-bit, 2.1-compliant, 132 MB/s, arbiter for 4 masters
LPC bus	Host, 33 MHz, Intel LPC v1.0 compatible
JTAG Interface	Available

# Peripherals

Feature	Specifications	
Standard Graphics Controller	4/8/18 bit color, TFT / STN, resolution up to 800 x 600 x 16, frame bu SDRAM	
Extended Graphics & Multimedia Controller	2700G chipset, TFT panels support, resolution up to 1280 x 1024 x 1 MB frame buffer, MPEG-2 & MPEG-4 decoders @30 fps. Available o X270W	
Video Input Port	Direct camera sensor support, max resolution 2048 x 2048. 30 fps @ 320x240, 15 fps @640x480	
USB	Two Host/Slave ports, 12 Mbps, 24-endpoints, OHCI v1.1 Additional two Host ports, 12 Mbps, OHCI v1.0 compliant	
Serial Ports (UARTs)	Up to 4 UART ports, 16550 compatible, max 921 kbps COM-A - RS232, full modem COM-B - TTL, Rx/Tx COM-C - TTL, partial modem COM-D - TTL, Rx/Tx	
General Purpose I/O	5 dedicated lines plus about 40 lines shared with other functions. Car as interrupt inputs.	
Hard Disk Interface	IDE, PIO mode	
Keyboard & mouse	USB or redirection from COM port	
Ethernet	Davicom DM9000 MAC & PHY, 10/100BaseT, Activity LED's	
Audio codec	Crystal CS4299 or Phillips UCB1400, AC97 interface, mono micropheline input and 25 mW output for active speakers	
Touchscreen ctrl.	A part of the UCB1400 codec chip. Supports resistive touch panels.	
PCMCIA controller	Direct support for 1st slot, hooks for 2nd slot, 8/16 bit interface	
RTC	Real Time Clock, powered by external lithium battery	
WLAN / WiFi Interface	Implements 802.11b wireless connectivity standard Supports Node to Access Point and Multi-Node (w/o access point) m connection. (but cannot act as Access Point) Philips BGW200 chipset, 11 Mbps, 2.4 GHz band. Single or dual antenna options. Supports antenna diversity for increas	

stability. Currently available in CM-X270L only.

## **Electrical, Mechanical and Environmental Specifications**

Supply Voltage	Single 3.3V or dual 3.3V / 5.0V (for "A" option)
Active power consumption	0.2 - 2 W, depending on configuration and CPU sp
Standby/Sleep consumption	20 - 100 mW, depending on configuration and moc
Dimensions	X270L - 66 x 44 x 7 mm, X270W - 68 x 58 x 7 mm
Weight	X270L - 25 gram, X270W - 35 gram
МТВБ	> 100,000 hours
Operation temperature (case)	Commercial: 0° to 70° C Extended: -20° to 70° C Industrial: -40° to 85° C. Click for <u>availability not</u> e
Storage temperature	-40° to 85° C
Relative humidity	10% to 90% (operation) 05% to 95% (storage)
Shock	50G / 20 ms
Vibration	20G / 0 - 600 Hz
Connectors	3 x 140 pin, 0.6 mm
Connector insertion / removal	50 cycles

#### For more information see:

- CM-X270 Reference Guide

- <u>Developer Resources</u>

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