

# MOXA

## Universal Communicator Front-end embedded computer for device networking

# MOXA

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# Hardware Specifications



	UC-7420	UC-7410	UC-7408	UC-7110
<b>CPU</b>	Intel Xscale IXP-422 266MHz	Intel Xscale IXP-422 266MHz	Intel Xscale IXP-422 266MHz	ARM9 32-bit CPU 166MHz
<b>RAM</b>	128 MB	128 MB	128 MB	16 MB
<b>Flash</b>	32 MB	32 MB	32 MB	8 MB
<b>LAN</b>	Auto-sensing 10/100 Mbps x 2 with Built-in 1.5 KV magnetic isolation protection			
<b>RS-232/422/485</b>	8	8	8	2
<b>Serial Protection</b>	15 KV ESD for all signals			
<b>Data Bits</b>	5, 6, 7, 8			
<b>Stop Bits</b>	1, 1.5, 2			
<b>Parity</b>	none, even, odd, space, mark			
<b>Flow Control</b>	RTC/CTS, XON/XOFF			
<b>Speed</b>	50 bps to 921.6 Kbps			
<b>Serial Console</b>	RS-232 x 1 RJ-45 Connector	RS-232 x 1 RJ-45 Connector	RS-232 x 1 RJ-45 Connector	RS-232 x 1 Pin-header Connector
<b>DI/DO</b>	N/A	N/A	DI x 8, DO x 8	N/A
<b>USB 2.0 Hosts</b>	2	N/A	N/A	N/A
<b>USB 1.1 Client</b>	1*	1*	1*	N/A
<b>PCMCIA</b>	Cardbus x 1**	N/A	Cardbus x 1**	N/A
<b>Compact Flash</b>	1***	N/A	1***	N/A
<b>LCM</b>	128 x 64 dots	128 x 64 dots	N/A	N/A
<b>Keypad</b>	5	5	N/A	N/A
<b>Real Time Clock</b>	Yes	Yes	Yes	Yes
<b>Buzzer</b>	Yes	Yes	Yes	Yes
<b>Rest Button</b>	HW Reset x 1 Reset to Default x 1	HW Reset x 1 Reset to Default x 1	HW Reset x 1 Reset to Default x 1	Reset to Default x 1
<b>Power Input</b>	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
<b>Power Consumption</b>	12W	10W	8W	3.5W
<b>Dimension</b>	197 x 125 x 44 mm	197 x 125 x 44 mm	197 x 125 x 44 mm	77 x 111 x 26mm
<b>Weights</b>	875 g	810 g	870 g	190 g
<b>Operating temperature</b>	-10 to 60°C, (14 to 131°F), 5 to 95% RH			
<b>Storage temperature</b>	-20 to 80°C, (-4 to 176°F), 5 to 95% RH			
<b>Regulatory Approvals</b>	EMC: CE Class A, FCC Class A		Safety: UL, CUL, TUV	
<b>Warranty</b>	5 years	5 years	5 years	5 years

\* USB Client function is reserved for future enhancement

\*\* PCMCIA is designed for 802.11b/g wireless LAN card expansion

\*\*\* CompactFlash is designed for Flash memory card or Microdrive expansion

# Software Package List

Items	UC-7400 Series	UC-7110
<b>Boot Loader</b>	Redboot V1.92	Moxa Proprietary Boot Loader
<b>Kernel</b>	MontaVista Linux 2.4.18	uClinux Kernel 2.4.22
<b>Protocol Stack</b>	ARP, CHAP, PAP, IPv4, ICMP, TCP, UDP, DHCP, FTP, Telnet, SNMP V1/V3, HTTP, NTP, NFS, SMTP, SSH 1.0/2.0, SSL, PPP, PPPoE, OpenVPN	ARP, CHAP, PAP, IPv4, ICMP, TCP, UDP, DHCP, FTP, Telnet, SNMP V1, HTTP, NTP, NFS, SMTP, PPP, PPPoE
<b>Flash File System</b>	JFFS2	JFFS2
<b>OS shell command</b>	bash V2.05a	msh V0.60.4
<b>busybox: Linux normal command utility collection</b>	busybox V0.60.3	busybox V0.60.4
<b>Utility</b>		
<b>login and user manager utility</b>	tinylogin V0.80	tinylogin V0.80
<b>telnet client program</b>	telnet V8.2	busybox-telnet V0.60.4
<b>FTP client program</b>	ftp V0.16	netkit-ftp-0.16
<b>email utility</b>	smtpclient 1.0.0	smtpclient (uClinux 0.2.2)
<b>Daemon</b>		
<b>dial in/out over serial port daemon</b>	pppd V2.4.1	pppd V1.13
<b>snmpd agent daemon</b>	snmpd V4.2.3	snmpd V4.1.1
<b>telnet server daemon</b>	telnetd V5.48	telnetd V1.9
<b>TCP server manager program</b>	inetd (Distributed 20030522)	inetd (Distributed 20030522)
<b>ftp server daemon</b>	ftpd V8.5	ftpd (uClinux 20020514)
<b>web server daemon</b>	Apache V2.0.42	boa 0.93.16
<b>secure shell server</b>	sshd V3.0.2p1	N/A
<b>network file system server</b>	NFS Server V2.2beta47	N/A
<b>virtual private network</b>	OpenVPN V1.6.0	N/A
<b>OpenSSL</b>	OpenSSL V0.9.6e	N/A
<b>Tool Chain</b>		
<b>Linux Tool Chain</b>	Gcc (V3.3.2): C/C++ PC Cross Compiler GDB Client (V5.2.1): Source Level Debug Server Glibc (V2.2.5): POSIX standard C library	Arm-elf-gcc (V2.95.3): C/C++ PC Cross Compiler uClibc (V0.9.19): POSIX standard C library
<b>Windows Tool Chain</b>	Gcc (V3.3.2): C/C++ PC Cross Compiler Glibc (V2.2.5): POSIX standard Insight (V6.0): Windows environment source level debug utility	N/A