

Quantum Ultra Series — Network Ports, Protocols, and Licenses

This guide contains information about network port requirements and third-party software packages used for Quantum Ultra II, Quantum Ultra, and Quantum Ultra Connect products. The tables below and the diagram on page 2 show the network ports and protocols required for communication between the PC or control system and the Extron hardware. Consult your network administrator to confirm connectivity for the network ports mentioned in this guide.

Network Port Information

The following tables provide network port information for network planning and troubleshooting.

- “Inbound/Outbound” refers to the flow of traffic to and from the device.
- “Inbound” indicates that traffic is received on the specified port on the device.
- “Outbound” indicates that the traffic is sent out from the specific port.
- “Both” indicates that traffic is received by and also sent out from the specified port.

Quantum Ultra II, Quantum Ultra, Quantum Ultra Connect

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Both	Telnet	SIS (Simple Instruction Set)
80	TCP	Both	HTTP	Default web page
1230	UDP	Outbound	SIS	Device discovery
1231	UDP	Inbound	SIS	Device discovery
5000	TCP	Both	TCP	Internal expansion system messaging
7106	TCP	Both	SSL	Internal system file transfer
7114	TCP	Both	SSL	Internal system messaging
7115	TCP	Both	SSL	Internal system messaging
22023	TCP	Both	SSH	SIS (Simple Instruction Set)
55001	TCP	Both	TCP	Internal expansion system file transfer

Videowall Configuration Software (VCS)

Port	Protocol	Inbound/Outbound	Service	Description
1230	UDP	Inbound	SIS	Device discovery
1231	UDP	Outbound	SIS	Device discovery
7106	TCP	Both	SSL	Internal system file transfer with VCS
7114	TCP	Both	SSL	Internal system messaging with VCS

Express Mobile Software — Quantum Ultra (EMS)

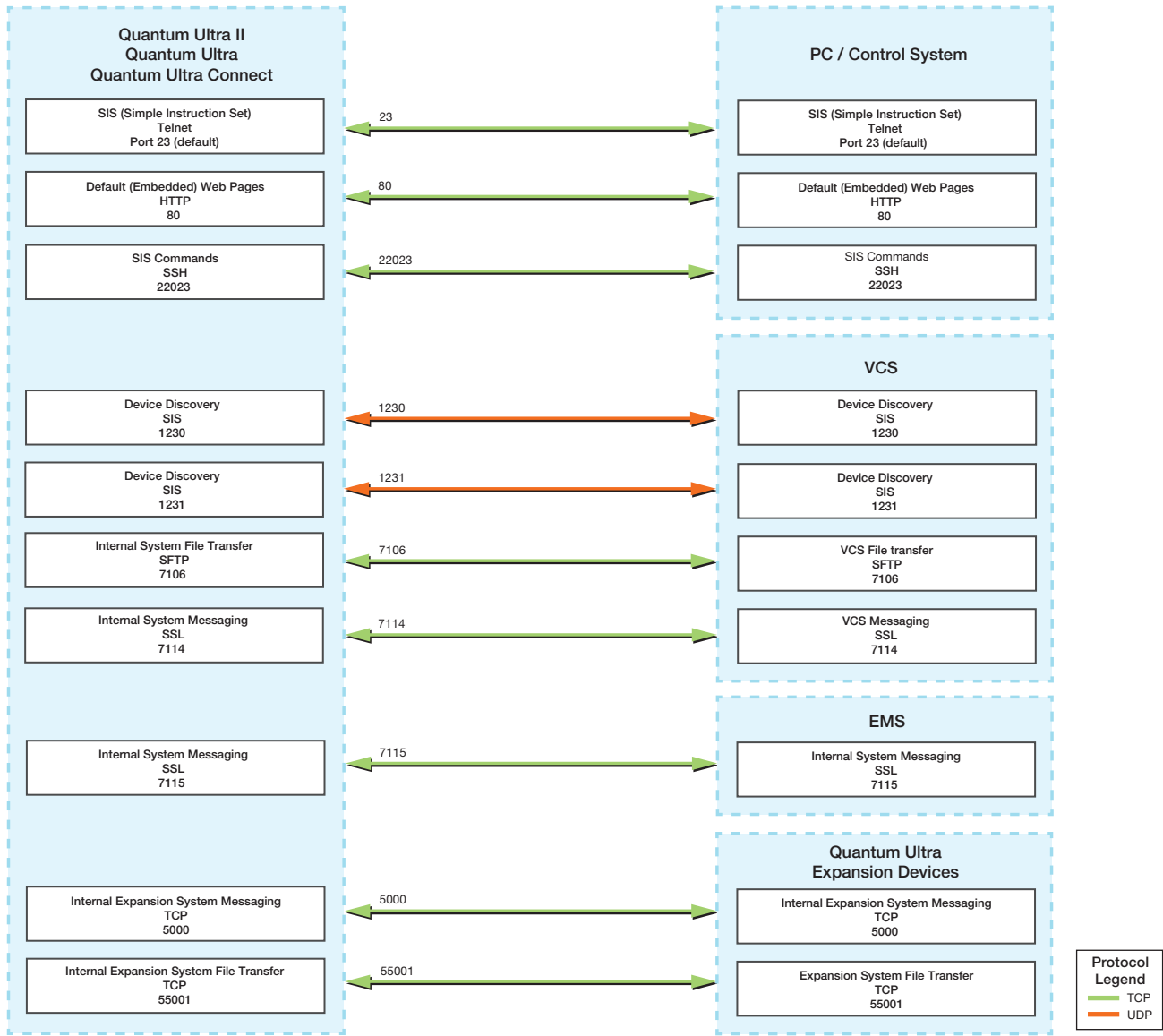
Port	Protocol	Inbound/Outbound	Service	Description
7115	TCP	Both	SSL	Internal system messaging with EMS

Quantum Ultra Series — Network Ports, Protocol, and Licenses (Continued)

PC

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Both	Telnet	SIS (Simple Instruction Set)
80	TCP	Both	HTTP	Default web page
22023	TCP	Both	SSH	SIS (Simple Instruction Set)

Network Traffic Overview



Quantum Ultra Series — Network Ports, Protocol, and Licenses (Continued)

License Information

The following table lists the licensed third-party software packages used by Quantum Ultra II, Quantum Ultra, and Quantum Ultra Connect.

NOTE: Licensed third-party software packages are subject to change without notice.

Licensed Third-Party Software			
Package	License	Package	License
alsa-lib	GNU LGPLv2.1	LiteDB	MIT
alsa-utils	GNU GPLv2	live555	GNU LGPLv2.1
aufs2-util	GNU GPLv2	lsof	custom
avahi	GNU LGPLv2.1	lzo	GNU GPLv2
bash	GNU GPLv3	ManagedOpenSsl64	custom
bstrlib	custom	Microsoft.AspNet.WebApi.Client	Microsoft
busybox	GNU GPLv2	Microsoft.AspNet.WebApi.Core	Microsoft
bzip2	custom	Microsoft.AspNet.WebApi.Owin	Microsoft
Castle Core	Apache v2.0	Microsoft.Owin.Host.HttpListener	Microsoft
check	GNU LGPLv2.1	Microsoft.Owin.Hosting	Microsoft
cjson	custom	mtl	GNU GPLv2
cppunit	GNU LGPLv2.1	ncurses	custom
cracklib	GNU LGPLv2.1	netcat	GNU GPLv2
ethtool	GNU GPLv2	netsh	BSD
eudev	GNU GPLv2	Newtonsoft.Json	MIT
expat	custom	NGINX	custom
flex	custom	NotoSansCJKsc	SIL OFL
gnupg	GNU GPLv2	ntp	custom
gnutls	GNU LGPLv2.1	openssh	BSD
Gpg4win	GNU GPLv3	openssl	OpenSSL
heirloom-mailx	custom	OpenSSL	BSD
htop	GNU GPLv2	orc	custom
i2c-tools	GNU GPLv2	owin	Apache v2
ifplugd	GNU GPLv2	packetdotnet	LGPLv3
kmod	GNU LGPLv2.1	Pcap.Net	custom
libassuan	GNU LGPLv2.1	PCRE	BSD
libcurl	custom	popt	custom
libdaemon	GNU LGPLv2.1	psmisc	GNU GPLv2
libdnet	custom	readline	GNU GPLv3
libeay32	custom	socat	GNU GPLv2
libevent	BSD	sqlite	custom
libgcrypt	GNU LGPLv2.1	strace	custom
libglib2	GNU LGPLv2	tcpdump	custom
libgpg-error	GNU LGPLv2.1	TI-Licences-Packages-Host-Target-1	various
libgpgme	GNU LGPLv2.1	TI-Licences-Packages-Host-Target-2	various
libjpeg-turbo	custom	turbocnc	various
libssh	GNU LGPLv2.1	tzdata	custom

Quantum Ultra Series Network Ports, Protocol, and Licenses

(Continued)

Licensed Third-Party Software			
Package	License	Package	License
linux-pam	custom	xinetd	custom
		zlib	custom
		zlibwapi	custom

NOTE: Go to www.extron.com for the complete user guide, installation instructions, and specifications.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the [Extron Safety and Regulatory Compliance Guide](#) on the Extron website.