

MGP 641 and MGP 641 xi — Network Ports, Protocols, and Licenses

This guide contains information about network port requirements and third-party software packages used for the MGP 641 and MGP 641 xi. The following tables and diagram show the network ports and protocols that are required for communication between the Extron software and 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.

MGP 641 and MGP 641 xi

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Both	Telnet	SIS (Simple Instruction Set)
NOTE: This port is disabled by default.				
53	UDP	Both	DNS	DNS Service
67	UDP	Both	DHCP	DHCP Server
68	UDP	Both	DHCP	DHCP Client
80	TCP	Both	HTTP	Port Redirects to HTTP
123	UDP	Both	NTP	NTP Service
161	UDP	Both	SNMP	SNMP Service
162	UDP	Both	SNMP	SNMP Service
443	TCP	Both	HTTPS	Default web page
1230	UDP	Both	Discovery	Discovery of device by software client applications.
1231	UDP	Both	Discovery	Discovery of device by software client applications.
4502	UDP	Both	Discovery	Broadcast Network Discovery
4503	TCP	Both	SSH	Internal System Messaging
4522	TCP	Both	SFTP	Internal System File Transfer
4523	TCP	Both	SSH	Internal System Messaging
22022	TCP	Both	SFTP	Secure File transfer
22023	TCP	Both	SSH	SIS (Simple Instruction Set)

MGP 641 and MGP 641 xi — Network Ports, Protocol, and Licenses

Toolbelt

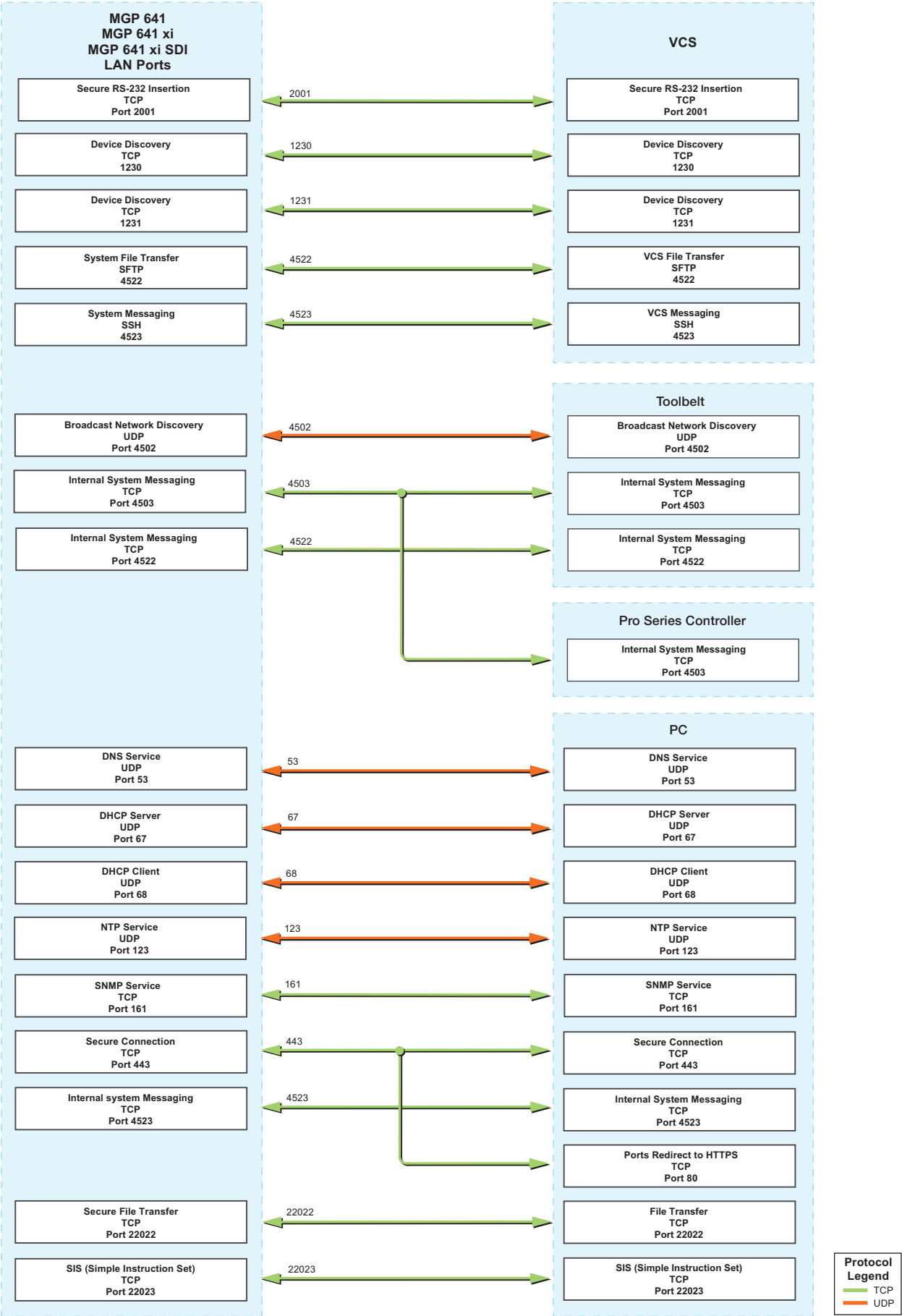
Port	Protocol	Inbound/Outbound	Service	Description
4502	UDP	Both	Discovery	Broadcast Network Discovery
4503	TCP	Both	SSH	Internal System Messaging
4522	TCP	Both	SFTP	Internal System Messaging

VCS

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Both	Telnet	SIS (Simple Instruction Set)
1230	TCP	Both	Discovery	Discovery of device by software client applications.
1231	TCP	Both	Discovery	Discovery of device by software client applications.
4502	TCP	Both	Discovery	Broadcast Network Discovery
4522	TCP	Both	SFTP	Internal System File Transfer
4523	TCP	Both	SSH	Internal System Messaging

MGP 641 and MGP 641 xi — Network Ports, Protocol, and Licenses

Network Traffic Overview



MGP 641 and MGP 641 xi — Network Ports, Protocol, and Licenses

License Information

The following table lists the licensed third-party software packages used by MGP 641 and MGP 641 xi.

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

Licensed Third-Party Software			
Package	License	Package	License
arm-trusted-firmware	BSD-3-Clause	jpeg-turbo	IJG, BSD-3-Clause, Zlib
aufs-util	GPL-2.0	jq	MIT
boost	BSL-1.0	kmod	LGPL-2.1+
busybox	GPL-2.0	libassuan	LGPL-2.1+
cairo	LGPL-2.1 or MPL-1.1	libcgicc	LGPL-2.1+
cjson	MIT	libcroco	LGPL-2.1+
cracklib	LGPL-2.1	libcurl	curl
dbus	AFL-2.1 or GPL-2.0+	libdaemon	LGPL-2.1+
e2fsprogs	GPL-2.0	libdnf	BSD-3-Clause
eudev	GPL-2.0+, LGPL-2.1+	libdrm	MIT
expat	MIT	libev	BSD-2-Clause or GPL-2.0+
fbset	GPL-2.0	libevdev	X11
fcgiwrap	MIT	libevent	BSD-3-Clause
flex	FLEX	libfcgi	OML
fontconfig	fontconfig license	libffi	MIT
freetype	FTL	libfribidi	LGPL-2.1+
gdk-pixbuf	LGPL-2.0+	libglib2	LGPL-2.1+
giflib	MIT	libgpg-error	LGPL-2.1+
gnupg	GPL-2.0+	libgpgme	LGPL-2.1+
harfbuzz	MIT	libpciaccess	MIT
heirloom-mailx	BSD-4-Clause	libpng	Libpng-2.0
hwdata	GPL-2.0+	libpthread-stubs	MIT
ifplugd	GPL-2.0+	librsvg	LGPL-2.0+
imagemagick	Apache-2.0	libsha1	BSD-3-Clause or GPL
imlib2	Imlib2	libssh2	BSD
iproute2	GPL-2.0+	libusb	LGPL-2.1+
iptables	GPL-2.0	libwebsockets	LGPL-2.1
jo	MIT, GPL-2.0+	libxcb	MIT
libxkbcommon	MIT/X11	qjson	LGPL-2.1
libxml2	MIT	qt5base	LGPL-2.1 with exception
linux	GPL-2.0	qt5imageformats	LGPL-2.1 with exception
linux-pam	BSD-3-Clause	rapidjson	MIT
lshw	GPL-2.0	shadow	BSD-3-Clause
lsf	lsf license	socat	GPL-2.0 with OpenSSL exception
lua	MIT	spawn-fcgi	BSD-3-Clause
lua-bit32	MIT	sqlite	Public domain
lua-cjson	MIT	tiff	tiff license

MGP 641 and MGP 641 xi — Network Ports, Protocol, and Licenses

Licensed Third-Party Software			
Package	License	Package	License
luabitop	MIT	tree	GPL-2.0+
luafilesystem	MIT	tslib	GPL-2.0+, LGPL-2.1+
luaposix	MIT	tzdata	Public domain
luasocket	MIT	uboot	GPL-2.0+
middleclass	MIT	utf8proc	MIT
mtdev	GPL-2.0	util-linux	GPL-2.0+, BSD-4 Clause
mtdev	MIT	wpa_supplicant	BSD-3-Clause
ncurses	MIT with advertising clause	xapp_unclutter	MIT
net-snmp	Various BSD-like	xapp_xauth	MIT
nginx	BSD-2-Clause	xapp_xcompmgr	MIT
ngx_echo	BSD-2-Clause	xapp_xdpinfo	MIT
ntp	NTP	xapp_xinit	MIT
openbox	GPL-2.0+	xapp_xinput	MIT
openssh	BSD-3-Clause	xapp_xinput-calibrator	MIT
openssl	OpenSSL or SSLeay	xapp_xkbcomp	MIT
paho-mqtt-c	EPL-2.0 or BSD-3-Clause	xapp_xrandr	MIT
pango	LGPL-2.0+	xapp_xsetroot	MIT
pciutils	GPL-2.0+	xcb-proto	MIT
pcrc	BSD-3-Clause	xcb-util	MIT
pixmap	MIT	xcb-util-image	MIT
psmisc	GPL-2.0+	xcb-util-keysyms	MIT
python3	Python-2.0	xcb-util-wm	MIT
xdata_xbitmaps	MIT	xlib_libXpm	MIT
xdriver_xf86-input-evdev	MIT	xlib_libXrandr	MIT
xdriver_xf86-input-keyboard	MIT	xlib_libXrender	MIT
xdriver_xf86-input-mouse	MIT	xlib_libXres	MIT
xdriver_xf86-input-tslib	MIT	xlib_libXt	MIT
xdriver_xf86-video-fbturbo	MIT	xlib_libXtst	MIT
xfont_encodings	Public Domain	xlib_libXxf86vm	MIT
xfont_font-alias	MIT	xlib_libfontenc	MIT
xfont_font-cursor-misc	unencumbered	xlib_libxkbfile	MIT
xfont_font-misc-misc	Public Domain	xlib_libxshmfence	MIT
xfont_font-util	MIT/BSD-2-Clause	xlib_xtrans	MIT
xinetd	xinetd license	xorgproto	MIT
xkeyboard-config	MIT	xserver_xorg-server	MIT
xlib_libICE	MIT	xterm	MIT
xlib_libSM	MIT	xutil_util-macros	MIT
xlib_libX11	MIT	zlib	Zlib

MGP 641 and MGP 641 xi — Network Ports, Protocol, and Licenses

Licensed Third-Party Software			
Package	License	Package	License
xlib_libXau	MIT		
xlib_libXaw	MIT		
xlib_libXcomposite	MIT		
xlib_libXcursor	MIT		
xlib_libXdamage	MIT		
xlib_libXdmcp	MIT		
xlib_libXext	MIT		
xlib_libXfixes	MIT		
xlib_libXfont	MIT		
xlib_libXft	MIT		
xlib_libXi	MIT		
xlib_libXinerama	MIT		
xlib_libXmu	MIT		

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.