DMP Plus Series Network Ports and Licenses

This guide contains information about network port requirements and third-party software packages used for Extron DMP Plus products. The term DMP Plus is used to refer to the DMP 64 Plus, DMP 128 Plus, and DMP 128 FlexPlus. The diagram below and the tables on the following pages show the network ports and protocols that are required for communication between the Extron software and hardware. Consult your network administrator to confirm the connectivity for the network ports mentioned in this guide.

Network Port Requirements

Network Traffic Overview

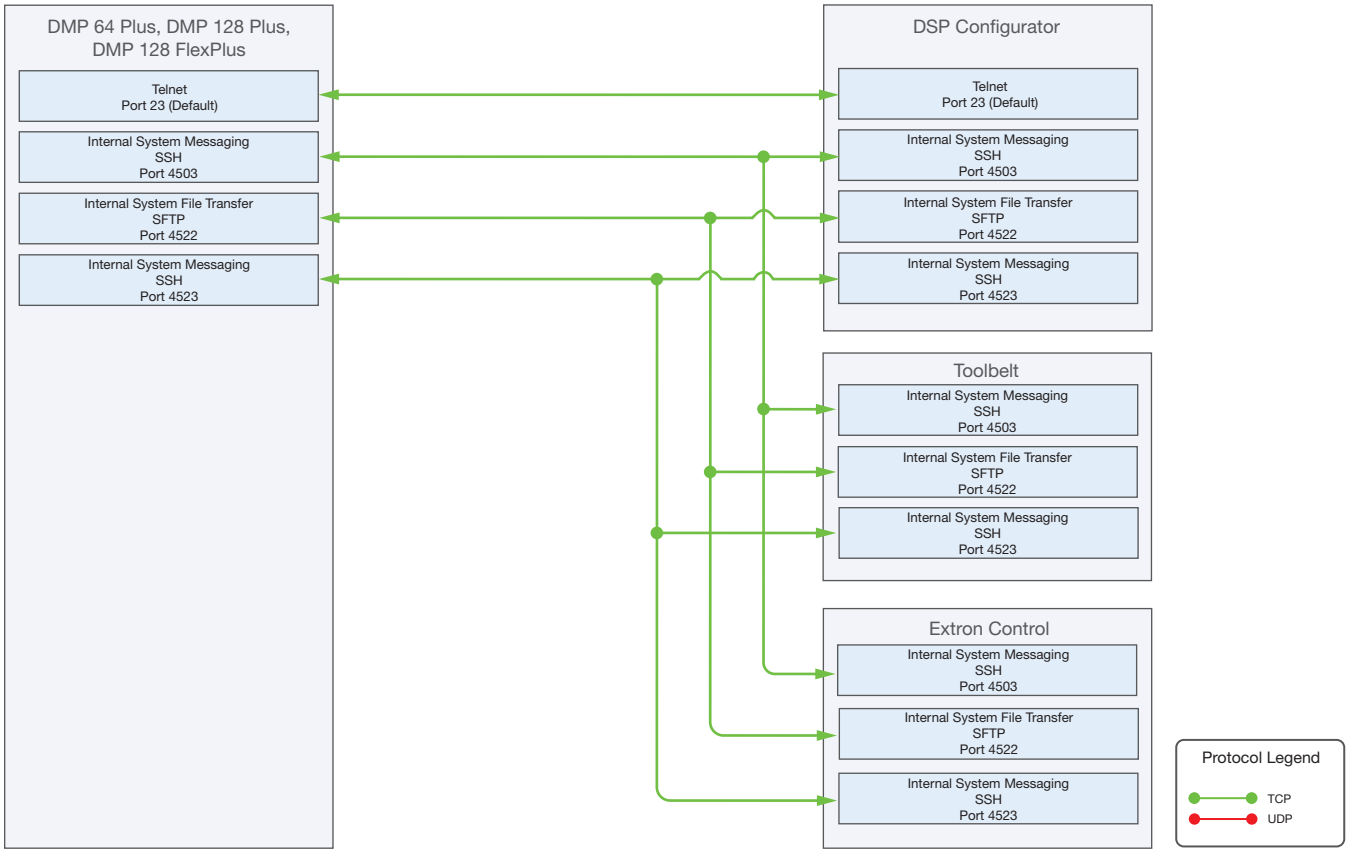

Figure 1. Interaction of Network Functions, Protocols and Ports (part 1)

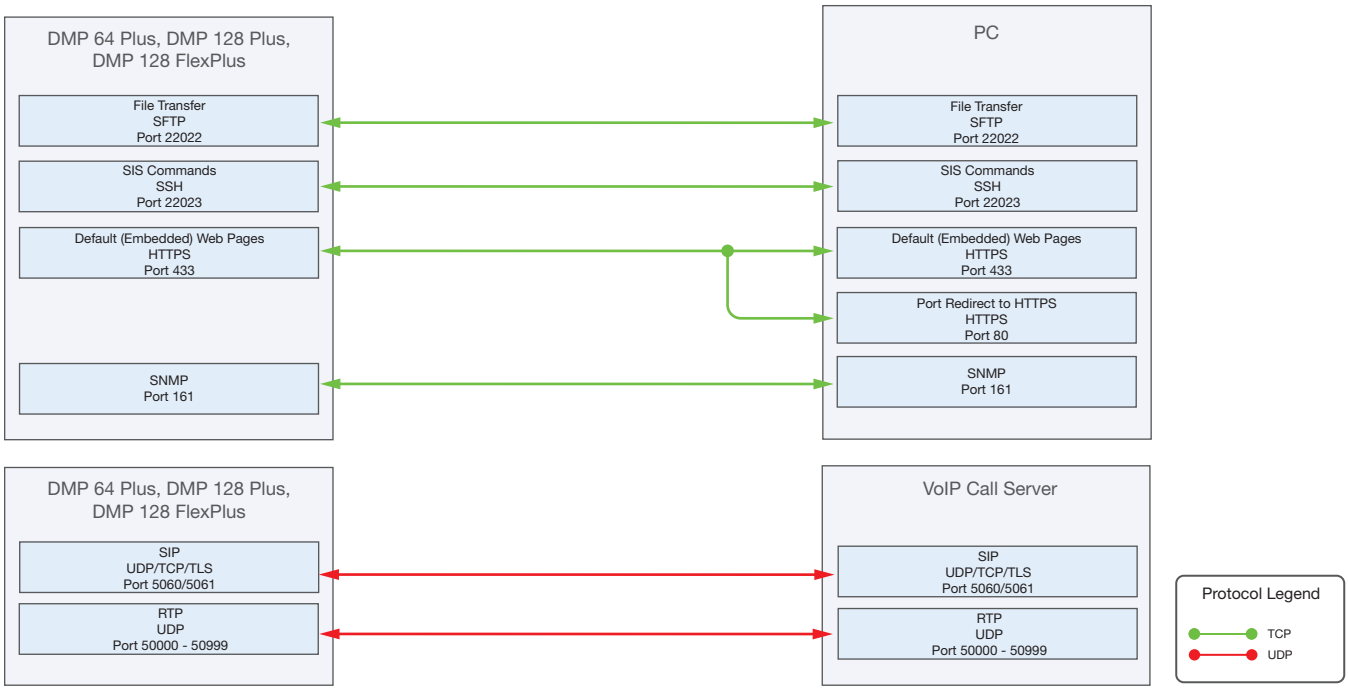

Figure 2. Interaction of Network Functions, Protocols and Ports (part 2)

Network Port Information

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

DMP Plus

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Inbound/Outbound	Telnet	Telnet service
80	TCP	Inbound/Outbound	HTTP	Port redirects to HTTPS
161	TCP	Inbound/Outbound	SNMP	SNMP service
433	TCP	Inbound/Outbound	HTTPS	Default web page
4503	TCP	Inbound/Outbound	SSH	Secure internal system messaging
4522	TCP	Inbound/Outbound	SFTP	Secure internal system file transfer
4523	TCP	Inbound/Outbound	SSH	Secure internal system messaging
5060/5061	UDP/TCP/TLS	Inbound	SIP	SIP transport for call control and communication. 5060 is the default port for UDP/TCP. 5061 is the default port for TLS.
22022	TCP	Inbound/Outbound	SFTP	Admin/User file transfer
22023	TCP	Inbound/Outbound	SSH	Admin/User SIS commands
50000-50999	UDP	Inbound/Outbound	RTP/SRTP	VoIP Line Ports

DSP Configurator

Port	Protocol	Inbound/Outbound	Service	Description
23	TCP	Inbound/Outbound	Telnet	Telnet service
4503	TCP	Inbound/Outbound	SSH	Secure internal system messaging
4522	TCP	Inbound/Outbound	SFTP	Secure internal system file transfer
4523	TCP	Inbound/Outbound	SSH	Secure internal system messaging

DMP Plus Series Network Ports and Licenses (Continued)

Toolbelt

Port	Protocol	Inbound/Outbound	Service	Description
4503	TCP	Inbound/Outbound	SSH	Secure internal system messaging
4522	TCP	Inbound/Outbound	SFTP	Secure internal system file transfer
4523	TCP	Inbound/Outbound	SSH	Secure internal system messaging

Extron Control

Port	Protocol	Inbound/Outbound	Service	Description
4503	TCP	Inbound/Outbound	SSH	Secure internal system messaging
4522	TCP	Inbound/Outbound	SFTP	Secure internal system file transfer
4523	TCP	Inbound/Outbound	SSH	Secure internal system messaging

PC

Port	Protocol	Inbound/Outbound	Service	Description
80	TCP	Inbound/Outbound	HTTP	Port redirects to HTTPS
161	TCP	Inbound/Outbound	SNMP	SNMP service
433	TCP	Inbound/Outbound	HTTPS	Default web page
5353	UDP	Outbound	mDNS	Multicast DNS
22022	TCP	Inbound/Outbound	SFTP	Admin/User file transfer
22023	TCP	Inbound/Outbound	SSH	Admin/User SIS commands

VoIP Call Server

Port	Protocol	Inbound/Outbound	Service	Description
5060/5061	UDP/TCP/TLS	Inbound	SIP	SIP transport for call control and communication. 5060 is the default port for UDP/TCP. 5061 is the default port for TLS.
50000-50999	UDP	Inbound/Outbound	RTP/SRTP	VoIP Line Ports

DMP Plus Series Network Ports and Licenses (Continued)

Dante Network Port Information - AT Models

The following tables provide the Dante network port information for network planning and troubleshooting on all DMP Plus AT models. These tables are Audinate's published list of network ports. For more information regarding Dante network information, please visit Audinate's website at **https://www.audinate.com**.

General Dante Ports

External

Address	Port	Usage	Type
239.255.0.0/16	4321	ATP Multicast Audio	Multicast
239.69.0.0/16	5004	AES67 Multicast Audio (RTP / AVP port)	Multicast
224.0.1.129-132	319, 320	PTP	Multicast & Unicast when using DDM
224.0.0.251	5353	mDNS	Multicast
224.0.0.230 – 233	8700 - 8708	Multicast Control and Monitoring	Multicast
239.254.1.1	9998	Logging	Multicast
239.254.3.3	9998	PTP Logging (if enabled)	Multicast
239.254.44.44	9998	Logging	Multicast
239.255.255.255	9875	SAP (AES67 discovery)	Multicast
UDP	28800, 28700 - 28708	Via control & monitoring (External)	Unicast
UDP	38800, 38700-38708	DVS control & monitoring (External)	Unicast

Internal

Protocol	Port	Usage	Type
UDP	14336 -14591	Unicast Audio [Excluding Via]	Unicast
UDP	34336-34600	Unicast Audio [Via Only]	Unicast
UDP	4440, 4444, 4455	Audio Control [Excluding Via]	Unicast
UDP	24440, 24441, 24444, 24455	Audio Control [Via Only]	Unicast
UDP	4777	Via Control [Via Only]	Unicast
TCP	4777	Via Websocket	Unicast
UDP	8850, 28900, 24445	Via control & Monitoring (Internal)	Unicast
UDP	8850, 38900, 8899	DVS control & monitoring (Internal)	Unicast
UDP	8000	Dante Domain Manager Device Port	Unicast
UDP	8001	Dante Millau Device Proxy (Internal only)	Unicast
UDP	8002	Dante Lock Server	Unicast
UDP	8751	Dante Controller metering port (From FPGA based devices)	Unicast
UDP	8800	Control & Monitoring (Excluding DVS-4.0 and Via)	Unicast
TCP	8753	mDNS clients (Internal only)	Unicast
TCP	16100-16131	HDCP Authentication for Video Endpoints	Unicast
UDP	61440 -61951	FPGA level audio flow keepalive	Unicast

Audinate Servers

Dante Via

Address	Port	Usage
software-license-via.audinate.com	443	License server
software-links-via.audinate.com	80443	Online user documentation
software-updates-via.audinate.com	80443	Automatic updates

Dante Virtual Soundcard

Address	Port	Usage
license.audinate.com	80	License server

Dante Updater

Address	Port	Usage
firmware-update.audinate.com	443	Downloading firmware files and device details

Dante Domain Manager

Outbound

Address	Port	Usage
software-license-ddm.audinate.com	TCP 443	Software licensing
software-certificates-ddm.audinate.com	TCP 443	Certificate acquisition and signing
software-updates-ddm.audinate.com	TCP 443	Software updates
software-links-ddm.audinate.com	TCP 443	Online user documentation
ANY	UDP8700, 8800, 28700, 28800, 38700, 38800	Device enrollment via IP

Inbound

Port	Usage
TCP 80	Web user interface (non-TLS)
TCP 443	Web user interface (TLS)
UDP 8000	Device communications
TCP 8001	Controller communications
TCP 8443	Controller login
TCP 8081	High availability service
TCP 27017	High availability database sync
UDP 8702	Device Enrollment via IP

Dante Firmware Update Software

Dante Via

Protocol	Port	Usage	Type	Application
UDP	69	TFTP server	Unicast	Firrmware Update Manager, Dante Updater
UDP	9005	TFTP server	Unicast	Firmware Update Manager
UDP	67	Failsafe recovery (old devices)	Unicast	Dante Updater
UDP	6700	Failsafe recovery	Unicast	Dante Updater

License Information

The following table lists the licensed third-party software packages used by all DMP Plus Series products

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

License Information			
Package	**License**	**Package**	**License**
ExtJS 4	Sencha Commerical License	libxml2	MIT
alsa-lib	LGPLv2.1	libxslt	MIT
alsa-utils	GPLv2	linux	GPLv2
asio	Boost-v1.0	linux-pam	BSD-3c
avahi	LGPLv2.1	lldpd	ISC
boost	Boost Software License 1.0	minicom	GPLv2
bstrlib	BSD-3c	mtd	GPLv2
busybox	GPLv2	ncurses	MIT with advertising clause
bzip2	bzip2 license	netsnmp	Various BSD-like
can-utils	BSD-like	nginx	BSD-2c
cjson	MIT	ngx_echo	BSD-2c
cracklib	LGPLv2.1	ntp	ntp license
devmem2	GPLv2	openssh	BSD-3c BSD-2c Public Domain
eudev	GPLv2 (programs), LGPLv2.1	openssl	OpenSSL or SSLeay
expat	MIT	paho-mqtt-c	EPL-1.0 or BSD-3c
flex	FLEX	pcre	BSD-3c
gnupg	GPLv2	pexpect	ISC
i2c-tools	GPLv2, GPLv2 (py-smbus)	popt	MIT
ifplugd	GPLv2	psmisc	GPLv2
iproute2	GPLv2	pylibssh2	LGPLv2.1
iptables	GPLv2	python3	Python Software Foundation
jo	MIT (json.[ch]), GPLv2 (rest)	python-coverage	Apache-2.0
jq	MIT	python-evdev	BSD-3c
keyutils	GPLv2 LGPLv2.1	python-lxml	BSD-3c, Others
kmod	LPGLv2.1 (library)	pyton-requests	Apache-2.0
libassuan	LGPLv2.1 (library-only)	python-serial	Python Software Foundation
libcgicc	LGPLv2.1	python-setuptools	Python Software Foundation
libcurl	curl	python-six	MIT
libdaemon	LGPLv2.1	python-websocket-client	LGPLv2.1
libdnet	BSD-3c	qt	LGPLv2.1 with exceptions
libevent	BSD-3c, OpenBSD	rapidjson	MIT
libfcgi	fcgi license	resiprocate	The Vovida Software License
libffi	MIT	shadow	BSD-3c
libglib2	LGPLv2	socat	GPLv2
libgpg-error	LGPLv2.1	spawn-fcgi	BSD-3c
libgpgme	LGPLv2.1	sqlite	Public domain
libnice	MPLv1.1	strace	BSD-3c
libnl	LGPLv2.1	tcpdump	BSD-3c
libnspr	MPLv2.0	tzdata	Public domain
libnss	MPLv2.0	uboot	GPLv2

DMP Plus Series Network Ports and License (Continued)

License Information			
Package	**License**	**Package**	**License**
libpcap	BSD-3c	util-linux	GPLv2, BSD-4c, LGPLv2.1 (libblkid,libfdisk, libmount), BSD-3C (libuuid)
libsocketcan	LGPLv2.1	wpa_supplicant	BSD-3c
libsrtp	BSD-3c	xinetd	xinetd license
libssh2	BSD	zlib	zlib license
libusb	LGPLv2.1		

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.

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