

NETWORK PORTS USED WITH CONVERGE PRO / SR SYSTEMS

Ports

In TCP/IP and UDP Networks, a protocol of “ports” is used at the transport layer to manage communication channels between programs. Port numbers range from 0 to 65536. Ports 0 to 1024 are well-known ports and are reserved for privileged services. Firewalls can be configured to block traffic from certain ports and to allow communication from other ports. The Converge Pro / SR communicates on the following ports:

Port	Protocol	Name	Converge
23	TCP	TELNET	Used by Telnet and Converge Console connections
25	TCP	SMTP	Used for outgoing email alerts
80	TCP	HTTP	Used for the built in web page
67	UDP	BOOTPS	Used for DHCP
68	UDP	BOOTPC	Used for DHCP
123	UDP	NTP	Used for the Network Time Server
137	UDP	NETBIOS	Used for NetBIOS name resolution
161	UDP	SNMP	Used for Simple Network Management Protocol (SNMP) management
162	UDP	SNMP	Used for SNMP Traps
3487	UDP	(UNNAMED)	Used by Console to locate Converge Pro / SR units on the same subnet

TCP port 23

Port 23 is used to communicate with and configure units using Console, AMX, Crestron, HyperTerminal and any other terminal emulation software. Telnet sessions and serial commands communicate through Port 23. If you want to connect to your Converge Pro / SR with Console, you will need to allow communication through Port 23.

TCP port 25

Port 25 is used to send email with an SMTP service. Converge Pro / SR uses this port to send email notifications based on

system events. Without access to this port, the Converge Pro / SR will not be able to send email notifications.

TCP port 80

Port 80 is used for HTTP traffic. This port is commonly used to connect to web pages on the internet. In order to connect to the web page of the Converge Pro / SR, port 80 will need to be open.

UDP ports 67 and 68

These ports are used for DHCP assignments. Port 67 is used by the DHCP server to assign IP addresses, and port 68 is used for client responses sent to the server. If either of these ports is blocked the Converge Pro / SR will not be able to lease an IP address. This will prevent you from connecting over Ethernet unless a static IP has been set in the Converge Pro / SR.

UDP port 123

Port 123 is used to update the system clock using a network time server. If this port is blocked, the Converge Pro / SR will fail to receive updates from the network time service over the LAN.

UDP port 137

Port 137 is used to register a name with a NetBIOS server. If this port is blocked the Converge Pro / SR will not be able to register its name with a NetBIOS server and you will not be able to use NetBIOS to connect to the unit.

UDP ports 161

Port 161 is the SNMP management port. The Converge Pro / SR monitors this port for *get* and *set* commands sent by your SNMP management software. If this port is blocked you will not be able to communicate with the Converge Pro / SR through SNMP. This port is hard coded in the Converge Pro / SR and cannot be changed.

UDP port 162

Port 162 is used to send trap notifications to the SNMP management software. If this port is blocked, event notifications will not be transmitted to the SNMP management software. The port used to send SNMP traps can be changed to any port from 1 – 255.

UDP port 3487

Port 3487 is used by Console to detect Converge Pro / SR systems connected to the network. If blocked, Console will not detect any units to connect to, leaving the USB connection option grayed out and preventing other Converge Pro units from appearing in the Ethernet drop down menu. You would need to know the IP address of the unit you wanted to connect to in Console and enter it manually.