Models 3034/3038
Multiport Asynchronous Statistical Multiplexer

Quick Start Guide

CE **Important** — This is a Class A device and is intended for use in a light industrial environment. It is not intended nor approved for use in an industrial or residential environment.

WARNING

- This device contains no user serviceable parts. The equipment shall be returned to Patton Electronics for repairs, or repaired by qualified service personnel.

- Mains Voltage: Line voltages are present when the power cord is connected. The mains outlet shall be within 10 feet (3 meters) of the device, shall be easily accessible, and protected by a circuit breaker.

- For AC powered units, ensure that the power cable used meets all applicable standards for the country in which it is to be installed, and that it is connected to a wall outlet which has earth ground.

- Hazardous network voltages are present in WAN ports, regardless of whether power to the unit is ON or OFF. To avoid electric shock, use caution when near WAN ports. When detaching the cables, detach the end away from the unit first.

- Do not work on the system or connect or disconnect cables during periods of lightning activity.

- For units with an external power adapter, the adapter shall be a listed Limited Power Source.

1.0 Connecting power

The interconnecting cables shall be acceptable for external use and shall be rated for the proper application with respect to voltage, current, anticipated temperature, flammability, and mechanical serviceability.

1.1 Connecting the power supply

AC Power

1. Connect the AC power cord female plug directly to the AC connector.
2. Connect the AC power cord male plug to an AC power outlet (120–240 VAC).

The *Power* LED blinks as the unit is powering up. When the *Power* LED stops blinking and remains lit, the unit is ready for user configuration. (See Figure 2 on page 4).

External Power (AC)

An LPS 120/240V AC to 5VDC adapter is supplied with the EUI version of the Model 3034/3038.

1. The female plug on the AC power cord plugs into the male AC connector on the adapter.
2. Connect the AC power cord male plug to an AC power outlet (120–240 VAC).

External Power (DC)

A 48VDC to 5VDC adapter is supplied with the E48 version of the Model 3034/3038.

1. The barrel power connector plugs into the barrel power supply jack on the unit.
2. The black and red leads connect to the DC source (nominal 48VDC).

Figure 1. Connecting DC Power to the DC Power Supply

⚠ WARNING

There are no user-serviceable parts in the power supply section of the Model 3034/3038. Contact Patton Electronics Technical support at (301)975-1007, via our web site at http://www.patton.com, or by e-mail at support@patton.com, for more information.
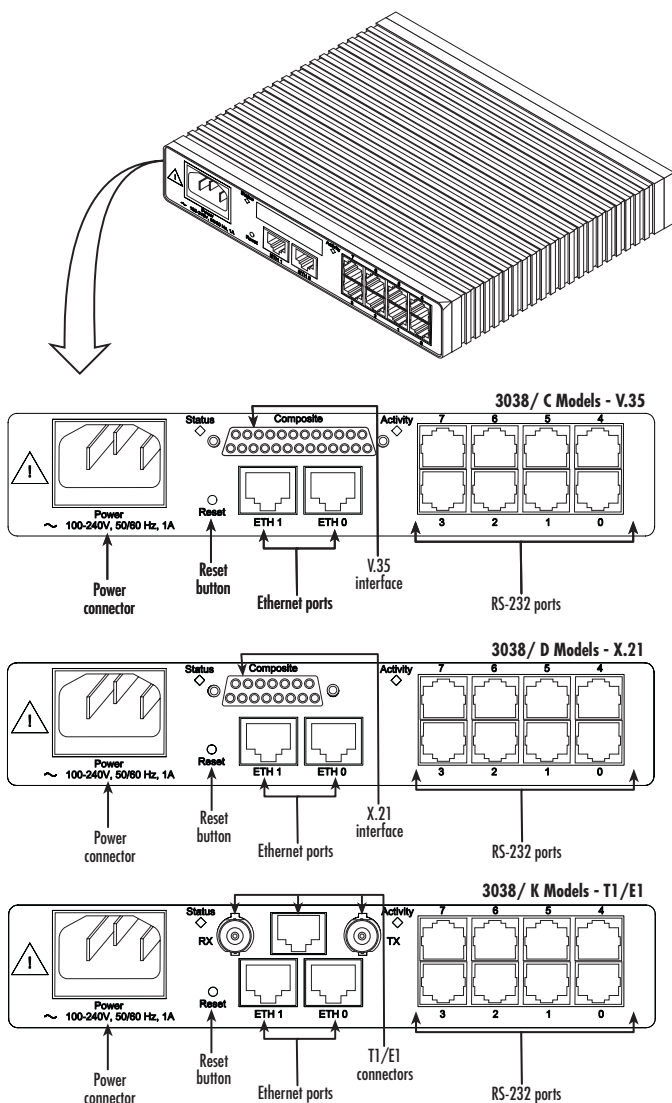
Figure 2. 3038 rear panel

2.0   Setting the IP address

2.1 Default IP configuration

The factory default IP settings are as follows:

• LAN port (ETH 0): IP address: 192.168.200.10, Netmask: 255.255.255.0, DHCP client

If this address conflicts or does not match with your network, it must be changed.

2.2 Connecting to the PC and logging in via the Ethernet port

1. To access the configuration, connect a PC's Ethernet port to the unit's LAN port (see **figure 3**). Use the black Ethernet cable included with your 3034/3038 for this purpose.
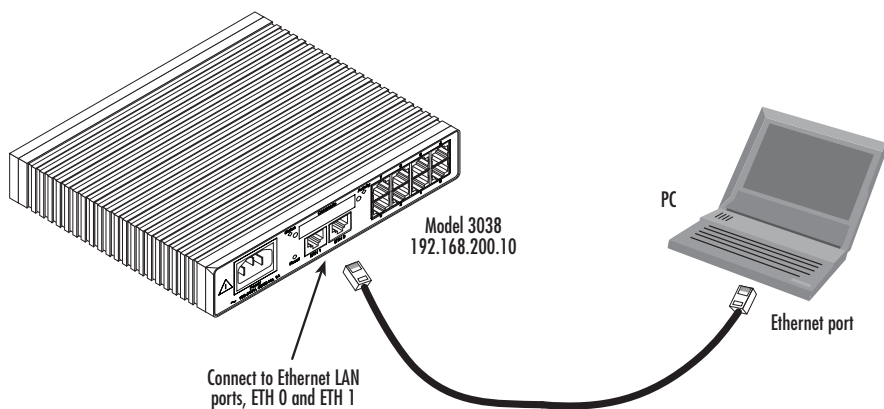
Figure 3. Connecting to the PC's ENET port

2. Configure your PC's Ethernet port to be on the same subnet as the 3034/3038.

3. Open a Telnet connection to the default LAN IP address of the 3034/3038 (*192.168.200.10*).

   Log into the unit using the following:

   ```
   login: admin
   password:
   ```

2.3 Connecting to the PC and logging in via the Console port

1. To access the configuration via the console port, connect the DB9-RJ45 adapter to the DB-9 serial port on the PC or dumb terminal. Use the RJ45 straight-through cable between the adapter and the console port on the 3034/3038. (see **figure 4**).

Model 3038
192.168.200.10

PC

DB-9 serial port

Connect to Console port

RJ45 to DB-9 adapter
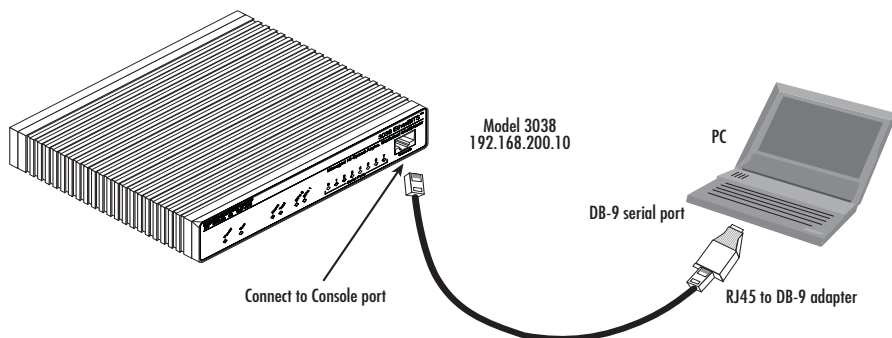
Figure 4. Connecting to the PC's Console port

2. Do NOT connect the device to the Ethernet LAN now.

3. On the PC, start a HyperTerminal session at 19200 bps, 8 data bits, 1 stop bit, no flow control, and no parity.

4. Log into the unit using the following:

```
login: admin
password:
```

2.4 Changing the IP address

To change the unit's IP address:

1. Login to the unit using *admin*, then use the following set of commands:

```
Trinity# configure
Trinity[config]# interface ethernet eth0
Trinity[eth-eth0]# no ip address 192.168.200.10
Trinity[eth-eth0]# ip address 192.168.1.1 netmask 255.255.255.0
```

2.5 Saving the IP address

To save the unit's IP address:

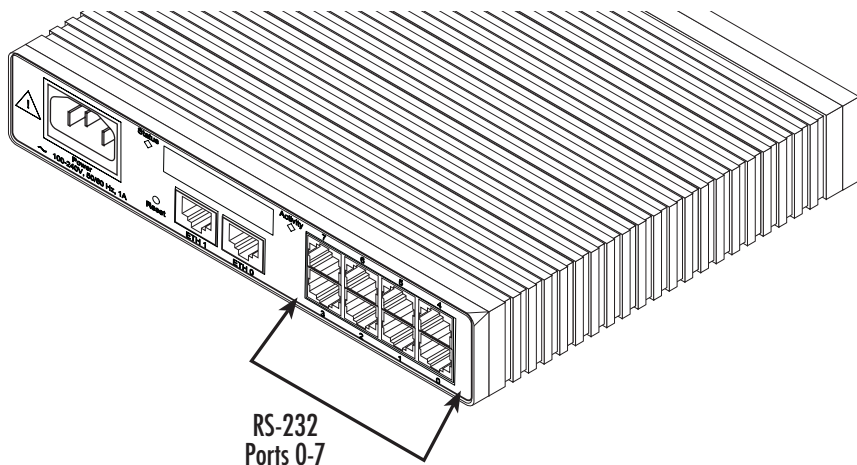1. Login to the unit using *admin*, then use the following set of commands:

```
Trinity# [eth-eth0]# end
Trinity# copy running-config startup-config
Trinity#
```

3.0 Connecting the RS-232 ports

Model 3034 has four RS-232 ports. Model 3038 has eight RS-232 ports.

RS-232
Ports 0-7

Figure 5. Connecting the RS-232 ports

To connect a cable to the RS-232 port:

1. Attach the male connector of the twisted pair cable to the female connector on the unit.

2. Attach the other end of the cable to a local RS-232 device. If the local device has a DB-9 connector, use an RJ-45 to DB-9 converter for the connection.

4.0   Connecting the Composite port

4.1 Models with an X.21 port

1. Plug the X.21 WAN cable's DB-15 male end into the DB-15 connector (labeled *Composite)* on the 3034/3038.
2. Plug the other end of the cable into the X.21 device.

4.2 Models with a V.35 port

1. Plug the V.35 WAN cable's DB-25 end into the units's *Composite* connector.
2. Plug the other end of the cable into the V.35 device.

4.3 Models with a T1/E1 port and BNC Connectors

Connecting to the T1/E1 RJ-48C port

1. Obtain a twisted-pair cable with an RJ-48C plug connector at each end.
2. Plug one end of the cable into the RJ-48C port on the unit.
3. Plug the other end of the cable into the T1/E1 device.

Connecting to the dual BNC connectors

1. Obtain a coaxial cable with a BNC connector at each end.
2. Plug one end of the cable into the transmit socket (labeled *TX)* on the unit. Plug the other end of the cable into the receive port of the E1 device.
3. Plug one end of the cable into the receive socket (labeled *RX)* on the unit. Plug the other end of the cable into the transmit port of the E1 device.

5.0   Additional information

For detailed information about configuring and operating guidance, set up procedures and troubleshooting, refer to the *Model 3034/3038 User Manual*—available online at **www.patton.com/manuals/3038.pdf**—and the *TrinityAE Administrator's Reference Guide,* available online at **www.patton.com/manuals/Trinity-arg.pdf**.

A.0 Compliance Information

A.1 Compliance

EMC:
- FCC Part 15, Class A

- EN55022, Class A

- EN55024

Safety:
- UL 60950-1/CSA C22.2 N0. 60950-1

- IEC/EN60950-1

- AS/NZS 60950-1

A.2 CE Declaration of Conformity

Product Description: Model 3034/3038

We certify that the apparatus identified above conforms to the requirements of Council Directive 1999/5/EC on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.

The safety advice in the documentation accompanying this product shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

$C\epsilon$ The safety advises in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The signed Declaration of Conformity can be downloaded from **www.patton.com/certifications/**.

A.3 Authorized European Representative

D R M Green, European Compliance Services Limited.
Oakdene House, Oak Road , Watchfield, Swindon, Wilts SN6 8TD, UK

B.0 Connector Pinouts

B.1 V.35 (DB-25 connector)

Signal/Voltage Source	Signal Designations				Signal Designations	Signal/Voltage Source
DCE	Test Mode	25		13		-
DTE	External Transmit Clock (a)	24		12	Transmit Clock (b)	DTE
-		23		11	External Transmit Clock (b)	DTE
-		22		10		-
DTE	Remote Loopback	21		9	Receive Clock (b)	DCE
DTE	Data Terminal Ready	20		8	Carrier Detect	DCE
-		19		7	Signal Ground	-
DTE	Local Loopback	18		6	Data Set Ready	DCE
DCE	Receive Clock (a)	17		5	Clear To Send	DCE
DCE	Receive Data (b)	16		4	Request To Send	DTE
DCE	Transmit Clock (a)	15		3	Receive Data (a)	DCE
DTE	Transmit Data (b)	14		2	Transmit Data (a)	DTE
				1	Frame Ground	-

B.2 X.21

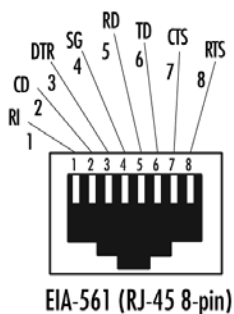|					
Transmit B	9		1	Frame Ground	
Control B	10		2	Transmit - A	
Receive B	11		3	Control - A	
Indication B	12		4	Receive - A	
Signal Timing B	13		5	Indication - A	
	14		6	Signal Timing - A	
	15		7		
			8	Signal Ground	

B.3 T1/E1

T1/E1 Telco (RJ-45)

B.4 RS-232

EIA-561 (RJ-45 8-pin)
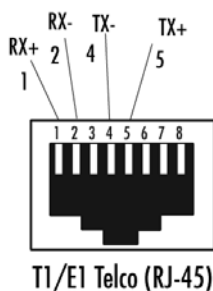
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Patton support headquarters in the USA

- Online support: Available at **www.patton.com**

- E-mail support: E-mail sent to **support@patton.com** will be answered within 1 business day

- Telephone support: Standard telephone support is available five days a week—from **8:00 am** to **5:00 pm EST (1300** to **2200 UTC/GMT)**—by calling **+1 (301) 975-1007**

- Support via VoIP: Contact Patton free of charge by using a VoIP ISP phone to call **sip:support@patton.com**

- Fax: **+1 (253) 663-5693**

Alternate Patton support for Europe, Middle East, and Africa (EMEA)

- Telephone support: Standard telephone support is available five days a week—from **8:00 am** to **5:00 pm CET (0900** to **1800 UTC/GMT)**—by calling **+41 (0)31 985 25 55**

- Fax: **+41 (0)31 985 25 26**

Note For additional service and support information, refer to the "Contacting Patton for assistance" chapter of the *Model 3034/3038 User Manual* available online at **www.patton.com/manuals/ 3038.pdf**.

Warranty, Compliance Information

For warranty, trademark and compliance information, refer to the *Model 3034/3038 User Manual,* available online at **www.patton.com/manuals/3038.pdf**.

In accordance with the requirements of council directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product from other waste and scrap and deliver to the WEEE collection system in your country for recycling.