
Setup Procedure

The following describes how to set up the Digi Connect.

Once the unit has been assigned a valid IP address, you can access it using a web browser, which enables you to adjust configuration settings. It is also available using Telnet, enabling direct access to the first serial port (reverse Telnet) and the attached device.

Set the Line Interface with the DIP Switches

See the following table for information on switch settings.

Function	Switch Settings			
	1	2	3	4
EIA-232	Up	Dn	Dn	Dn
EIA-422/485 Full-duplex	Dn	Up	Dn	Up: Termination enabled Down: Termination disabled
EIA-485 half-duplex	Dn	Dn	Up	

Set Up the Hardware

1. Connect the device to the power supply, the power supply to an outlet, and the device to the network.
2. Connect peripherals to serial ports.

Configure Digi Connect

1. Connect a terminal to port 2 of the Digi Connect unit.
2. Configure the terminal for 9600 bps, 8 data bits, 1 stop bit, and no parity.
3. Power on the Digi Connect unit.

The Digi Connect unit displays current configuration parameters and prompts you to press a key within 5 seconds in order to change the configuration.

4. Press any key within the 5 second timeout period and follow the prompts to change network and basic serial port settings.

Once the unit has finished booting, it will display the following:

```
Config data located at 0x0000003C
```

```
Telnet Serial Application Begins.
```

```
Port[0] is successfully opened  
getTelnetServerOptions(0) returning 0x00000005  
RAM based FTP Server ready.
```

Connect to the Unit with a Web Browser

1. Point a web browser to the unit by entering the IP address in the web browser's URL Address field.

Example: `http://192.168.1.50`

A user name and password prompt appears.

2. Enter a user name and password. The following are the default user name and password:

Username: Netsilicon

Password: sysadm

Connect to Serial Port 1 Using Telnet:

1. Connect the device you want to communicate with to serial port 1 on the Digi Connect.
2. Telnet to the Digi Connect, specifying the port defined in Telnet configuration (default is 10000).

Example: `telnet 192.168.1.50 10000`

A user name and password prompt appears.

3. Enter a user name and password. The following are the default user name and password:

Username: Netsilicon

Password: sysadm

Once you are authenticated, the Telnet session is redirected to port 1 of the Digi Connect, enabling communication with the device connected to that port.

Upgrading Firmware:

You can upgrade firmware through a JTAG interface, which is part of the Net+Connect development environment. Obtain the latest BSP from NetSilicon that corresponds to the hardware components in the Digi Connect.



Connectware™

About This Card

Use this card for a brief introduction to the Digi Connect.

Package Contents

The package contains the following items:

- One Digi Connect and power supply unit with integral cords
- One DB9F-to-DB9F crossover cable.

Note: For additional cables, contact your dealer or distributor.

- This card, an Access Resource CD card, a warranty card and associated paperwork

Key Features

Here are some of the key features of Digi Connect:

- Switchable line interface (EIA-232/422/485)
- Serial ports capable of supporting asynchronous, high-speed connections to printers, modems, terminals, and other devices. Support extends to full modem control and hardware handshaking.
- Auto-sensing 10/100 TX Ethernet connection
- Industry standard surge suppression and ESD protection to 15 kilovolts on all signal pins
- LED indicators to display network information
- Local configuration using a terminal or PC and remote configuration using either a Telnet connection or a web browser.

**Digi Connect
Setup Card**

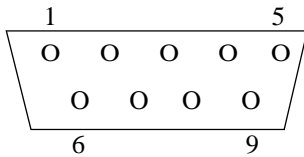
DB9 Connector Wiring

The following table provides DB9 cabling information.

DB9 Pin	EIA-232	EIA-422/485 Full-Duplex	EIA-485 Half-Duplex
2	RxD	RxD+	RxD+
3	TxD	TxD+	TxD+
7	RTS	RTS+	Not used
8	CTS	CTS+	Not used
5	GND	GND	GND
6	DSR	RxD-	RxD-
1	DCD	CTS-	Not used
4	DTR	RTS-	Not used
9	NA	TxD-	TxD-

DB9 Pin Orientation

The following figure illustrates DB9 pin assignments.



Powered Ethernet Pinouts



The following table provides Powered Ethernet cabling information.

Pin Number	Signal
1	TxD +
2	TxD -
3	RxD -
4	Ethernet power +
5	Ethernet power +
6	RxD +
7	Ethernet power -
8	Ethernet power -

Specifications

WARNING: To prevent electric shock, do not remove the cover of this module. There are no user-serviceable parts inside. Refer servicing to qualified personnel.

CAUTION: This unit has two power inputs. For total isolation from electrical shock and energy hazard, disconnect both power inputs. The device is intended to be mounted in an indoor only type system.

Power Requirements	
2-contact barrel connector 	+9 to +30 VDC .525 A (max) external power supply
RJ-45 Powered Ethernet 	+30 to +60 VDC .125 A (max)
Environmental	
Ambient temperature	10 to 55 degrees Celsius 50 to 131 degrees Fahrenheit
Relative humidity	5% to 90% non-condensing
Altitude	0 to 12,000 feet 0 to 3,658 meters
Mechanical	
Length	13.33 centimeters 5.25 inches
Width	8.25 centimeters 3.25 inches
Height	1.90 centimeters .75 inches
Weight	.227 Kilos 8 ounces

FCC Part 15 Class A

Radio Frequency Interference (RFI) (FCC 15.105)

This equipment has been tested and found to comply with the limits for Class A digital devices pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Labeling Requirements (FCC 15.19)

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifications (FCC 15.21)

Changes or modifications to this equipment not expressly approved by Digi may void the user's authority to operate this equipment.

Cables (FCC 15.27)

Shielded cables *must* be used to remain within the Class A limitations.

ICES 003 Class A

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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