



IOLAN DG1/DG1 TX SDG1/SDG1 TX Quick Start Guide

The IOLAN DG1, DG1 TX, SDG1, SDG1 TX models provide Serial to Ethernet connectivity. Leading edge features include; universal software selectable EIA 232/422/485 interface, next generation IP support (IPV6) and 10/100/1000 Ethernet speeds.

This guide covers basic installation and configuration and is intended for first time setup or product evaluation.

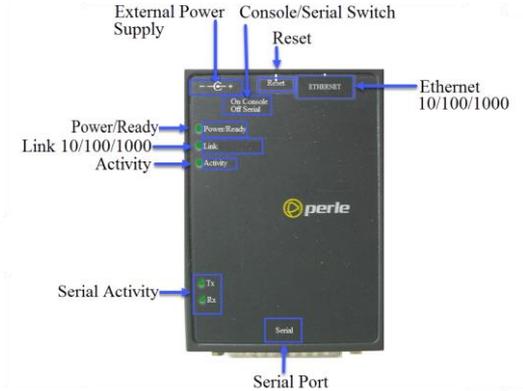
Complete details can be found in the following guides at www.perle.com/downloads.

- IOLAN User's Guide
- IOLAN Command Line Interface Reference Guide
- IOLAN DG1/DG1 TX/SDG1/SDG1 TX Hardware Installation Guide

What's in the box?

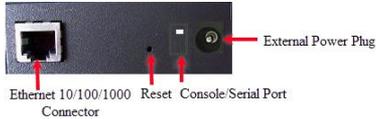
- ✓ The IOLAN
 - DG1 RJ45 - 1 port with one RJ45 serial port
 - DG1-DB9 - 1 port with one DB9M serial port
 - DG1-DB25 - 1 port with one DB25F serial port
 - DG1 TX - 1 port (Extended Temperature) with one DB9M serial port
 - SDG1-RJ45 - 1 port with one RJ45 serial port
 - SDG1-DB9 - 1 port with one DB9M serial port
 - SDG1-DB25 - 1 port with a DB25F serial port
 - SDG1 TX - 1 port (Extended Temperature) with one DB9M serial port
- ✓ External power supply
- ✓ A Quick Start Guide (this document)
- ✓ Power adapter, strain relief strap and rubber feet
- ✓ Wall mount brackets

Hardware Overview

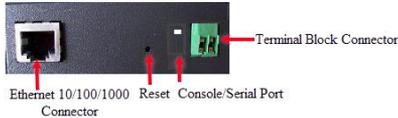


Note: The Serial Port can be either RJ45, DB9M or DB25F

Back View DG1 or SDG1 with connector for Barrel Connection



Back View DG1 TX or SDG1TX with connector for Terminal Connection



Button/Switch Functions

Reset Button

The inset RESET button will reboot the IOLAN if pushed in and released quickly. It will reset the IOLAN to factory defaults if pushed in and held for more than three seconds

Console/Serial Switch

The IOLAN is set in the factory to serial (down position). Unless you plan to attach a console to the IOLAN, leave the dip switch in the serial position. If this DIP switch is set to the up position, then the serial port is in console mode. In console mode, the port provides access to the IOLAN management function using the industry standard CLI command set. See the IOLAN Command Line Interface Reference Guide.

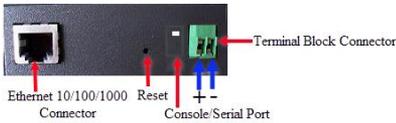
Connecting the Hardware

Connecting the barrel connector

Plug the barrel connector end into the IOLAN, then plug the power adapter into a

power source. The Power/Ready LED should show a solid green after the boot sequence.

Wiring the Terminal Block



1. Ensure power is NOT applied to the wires prior to connection.
2. On each end wire (12-20 AWG), remove the insulation from the copper wire 5 mm (3/16 of an inch).
3. Loosen the left screw on the top of the terminal connector block, then insert your positive (+) wire into the left terminal and screw it down tight (.51Nm torque). Loosen the right screw on the top of the terminal connector block, then insert your negative (-) wire into the right terminal and screw it down tight (.51Nm torque).
4. Turn on power at source.
5. Connect the Ethernet cable from the RJ-45 plug (10/100/1000) to the HUB or switch that will provide network connectivity (if applicable to your application).
6. The console dip switch on the IOLAN should be set to the up position for serial mode.
7. Connect the power cord strain relief and the grounding lug, if desired. See IOLAN DG1 /DG1 TX /SDG1 /SDG1 TX Hardware Installation Guide for details.

Power On Cycle

When the power is connected to the IOLAN, the Power/Ready LED will cycle through several sequences and will end in a solid green once the unit is fully booted and ready to be configured. If the LED is not solid green after two minutes, see the DG1/DG1 TX /SDG1 /SDG1 TX Hardware Installation Guide.

LED Guide

System Ready

- **Green Solid**—System Ready
- **Flashing**—System is booting or DIP switch is in console mode
- **Yellow—Flashing**—Booting
- **Red**—Error condition. See IOLAN DG1/DG1 TX /SDG1 /SDG1 TX Hardware Installation Guide

Link 10/100/1000

- **Green**—1000 Mbps (flashes with activity)
- **Amber**—10/100 Mbps (flashes with activity)
- **Off**—No LAN connection

Serial Activity

- **Off**—No serial activity
- **On**—Tx/Rx flashes with transmit/receive serial activity

Connecting Ethernet

Connect the network to the Ethernet port using a Cat5/5e Ethernet cable.

Connecting the Serial Device

Connect the serial device to the IOLAN serial port.

See the IOLAN DG1/DG1 TX/SDG1/SDG1 TX Hardware Installation Guide for pinout details and how to terminate the serial port for 485/Full/Half and 422 mode if your application requires it.

Configuring the Unit

The IOLAN features several different configuration methods (i.e. HTTP, Telnet, SNMP) as well as an external Windows based Utility (DeviceManager). For the most up to date documentation on any of these configuration methods see the IOLAN User's Guide or for the most recent version of the Device Manager and other utilities, please refer to the Perle website at www.perle.com

Connecting to the IOLAN

1. Install the DeviceManager to your laptop or PC.
2. Start the DeviceManager program from installed programs.
3. Under the DeviceManager menu, select **File**, then select **Connect to**.
4. Your IOLAN will show as Unconfigured in the list.
5. Select your IOLAN from the list and select the **Assign IP** button.
6. Assign a valid IP address to the IOLAN that is on your network.
7. You will be prompted by the software for the admin password before being able to connect and configure the IOLAN (**superuser** (case sensitive)).
8. You should change the admin password to restrict unauthorized access to the IOLAN.

Registering and Contacting Technical Support for the IOLAN

You should register IOLAN online at:

www.perle.com/support_services/warranty_reg.asp

Contact information for the Perle Technical Assistance Center (PTAC) can be found at the link below.

www.perle.com/support_services/support_request.shtm