



# IOLAN SCG

## Expandable Models

### Quick Start Guide

The IOLAN SCG gives you a way to access serial devices remotely from anywhere there is a network connection.

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](http://www.perle.com/downloads).

- IOLAN User's Guide V5.0 or greater
- IOLAN Command Line Interface Reference Guide V5.0 or greater
- IOLAN SCG Hardware Installation Guide – Expandable Models

### *IOLAN SCG Models*

All IOLAN SCG models have the following basic hardware set. 16/32/48 RS232 RJ45 and/or 16/32/48 USB ports (any combination of USB/RS232 RJ45 ports), using 16 port expansion modules.

- 2 RJ45 auto-sensing Ethernet 10/100/1000 Mbps ports
- 2 SFP 100/1000 Ethernet transceiver ports
- 1 Micro-USB and 1 RS232 RJ45 Console Admin Port
- 2 USB front ports for serial class devices
- Front Panel Display with keyboard

**Note:** When using Ethernet Combo ports (RJ45 and SFP pair), only one interface will be active at a time.

### **Optional hardware**

- Internal V.92 modem with one RJ11 connector
- Cellular WWAN capability based on 4G LTE technology (North American or European)
- SIM card slot to be used for 4G LTE networks
- Wireless LAN (Wifi) client 802.11 a,b,g,n @2.4Ghz/5Ghz support

### *What's in the box?*

The following components are included with your product:

- ✓ IOLAN SCG Chassis: 1U-tall (1.75 inch), rack-mountable chassis
  - Combination of:
  - 16 port USB modules
  - 16 port RS232 RJ45 modules

- to a maximum total of 48 ports in the back of the unit
- ✓ Power cables for dual AC
- ✓ Quick Start Guide (this guide)
- ✓ Rack mount kit
- ✓ 1 meter CAT5 straight-through patch cable
- ✓ Adapter to convert from Cisco (RJ45) pin-out to DB9F

### Added components for wireless models:

- ✓ 2 x RP-SMA Antennas

### Added components for cellular models:

- ✓ Two multi-band swivel-mount dipole antennas

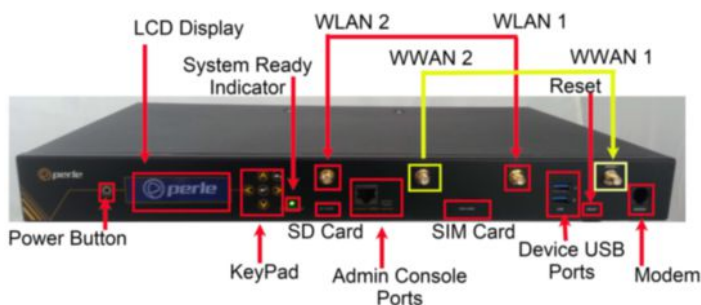
## What You Need to Supply

Before you can begin, you need to have the following:

- A serial cable(s) to connect serial devices to your IOLAN unit
- An Ethernet CAT5e 10/100/1000BASE-T cable/s or an SFP module/s with the appropriate fiber cable to connect the IOLAN unit to the network
- Data Plan subscription with a supported carrier and activated 3FF SIM Card for SCG-LA or SCG-LE models only

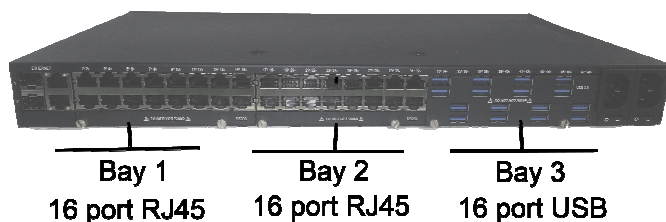
## Hardware Features

### SCG Front View



### SCG Back View

#### IOLAN SCG50 RRU



## Configuring the Unit

The IOLAN SCG 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 IOLAN SCG feature refer to the Perle website at [www.perle.com](http://www.perle.com)

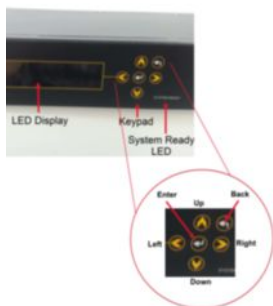
## Initial Setup for the IOLAN SCG

1. Connect power to the IOLAN SCG.
2. Set an IPv4 address from the Front Panel.
3. Connect an Ethernet cable to the IOLAN SCG, then to your network.
4. Connect Serial Devices.

### Connecting the Power

When the power is connected to the IOLAN, the System 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 IOLAN SCG Hardware Installation Guide-Enhanced Models for more information.

### Setting an IPv4 address through the Front Panel



To enter IPv4 setup information:

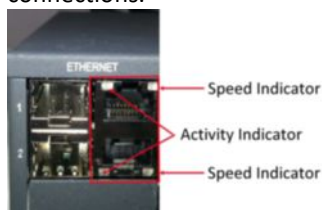
1. From the Main Menu (IOLAN name, date and time), press the Down arrow to scroll to Configuration, now press the Center button for Enter.
2. Press the Down arrow.  
The display should read Eth1 DHCP : OFF
3. Press the Down arrow again.  
The display should now read:  
Eth1 IPv4  
000.000.000.000
4. Press the Center button for Enter to go into Edit mode. A cursor will flash under the first zero (0) in the IP address.
5. To enter values:  
Use the left or right arrow to move the cursor to the left or right position.

Use the up or down arrow to increment or decrement the numerical value.

6. Press the Center button for Enter.
7. Press the Down arrow to scroll to the next screen to enter the Network mask.
8. Use steps 4 to 6 to enter the Eth1 Network Mask.
9. Press the Center button for Enter.
10. You will be prompted to Save Network Cfg.
11. Press the left arrow button, select Yes, then Press the Center button for Enter to save your selection.
12. Press the Back button twice to go back to the Main Menu.
13. You will need to reboot the IOLAN SCG using the power switches on the back of the unit to have the new IP address take effect.

## Connecting Ethernet

Connect LAN cable/s from the Ethernet 1/2 RJ45 or SFP connectors on the back of the IOLAN SCG to your network. Cat5e cables are recommended for 1000 Mbps connections.



### Speed Indicator (on Ethernet Connector/s)

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

### Activity Indicator

**Off**—No serial activity

**On**—Tx/Rx flashes with transmit/receive serial activity

## Connecting the Serial Device

Connect devices, workstations, servers or routers using a straight through serial cable.

## Registering the IOLAN

You should register your IOLAN online at:

[www.perle.com/support\\_services/warranty\\_reg.asp](http://www.perle.com/support_services/warranty_reg.asp)

## Contacting Technical Support

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

[www.perle.com/support\\_services/support\\_request.shtm](http://www.perle.com/support_services/support_request.shtm)