

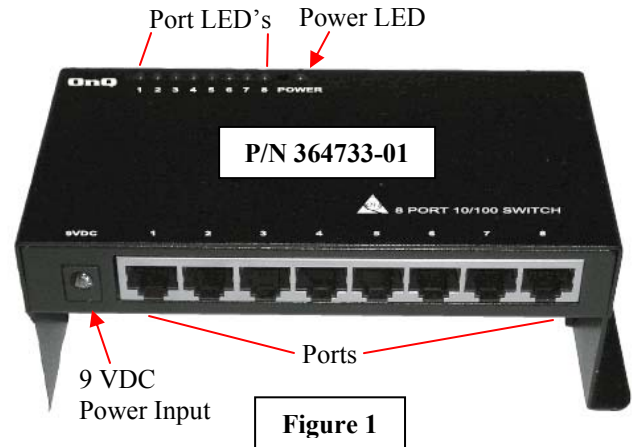
INSTRUCTION/INSTALLATION SHEET

8 PORT 10/100 ETHERNET NETWORK SWITCH

IS-0279 REV. 0

1. Introduction

The On-Q Home 8 Port 10/100 Ethernet Network Switch (see *Figure 1*) comes with eight (8) independent 10/100Mbps ports. Each port automatically detects the proper Ethernet speed (10 or 100Mbps) of the connected device and adjusts its operation to support that speed. Each port supports both Full and Half Duplex operation, and each utilizes a store and forward architecture to perform both forwarding and filtering. LEDs are provided to indicate the status of each port and there is also an LED to indicate the power supply status.



2. Description

The On-Q Home 8 Port 10/100 Ethernet Switch is a Plug and Play device, requiring only power for proper operation. No configuration or software is required. It complies with both IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX Ethernet standards. Each port auto-negotiates either 10 or 100Mbps speed to properly support the connected device. Each port supports IEEE 802.3 flow control for Full Duplex operation, and Back Pressure function for Half Duplex operation. The store and forward architecture of each port supports forwarding and filtering, including a filter function to prevent Broadcast Storms. Runt and CRC Filtering eliminates erroneous packets and optimizes the network bandwidth. Automatic source MAC Address learning and aging is provided, as is the capability to handle up to a 1522 byte packet. A TP interface Auto MDIX function is supported on each port to allow proper operation with straight-through or crossover Ethernet interface cables.

NOTE: Although CAT3, 4, or 5 cable may be used for 10Mbps operation, CAT5 or better cable is required for 100Mbps operation, and each interface cable should never exceed 100 meters in length.

3. Installation

Installation of the On-Q Home 8 Port 10/100 Ethernet Network Switch into an On-Q Home enclosure is accomplished as follows:

- A. The On-Q Home 8 Port Switch is considered a “Plug and Play” network device and requires no special setup except for connecting the appropriate power adapter. Since the switch employs auto crossover technology, RJ-45 Ethernet cables that are “straight through” or “crossover” design will work for all applications. The switch will determine the transmit and receive paths and adjust itself.
- B. Mounting in Enclosure – (see *Figure 2*)
 1. Align tabs on the module with slots in enclosure.
 2. Insert tabs by angling module away from the back of the enclosure.
 3. Rotate the module and insert fasteners on the module into corresponding holes on rear of enclosure. (Plunger must be in a pulled position for fastener to engage hole.)
 4. Push plunger in to lock module in place. Pull on module to ensure module is locked properly in place.

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- C. Using RJ-45 patch cables, such as On-Q Home P/N 363201-25, -26, or -27, jumper the switch ports to a network interface module, such as the On-Q Home 8 Port Network Interface (P/N 363486-01). This will connect the punched down network runs from the outlets to the 8 Port Switch. Alternatively, terminate the network runs from the outlets with RJ-45 plugs such as the On-Q Home EZ-RJ45 Modular Plugs (P/N 364554-01) for direct connection to the 8 Port Switch. The link/activity LEDs associated with each port should be ON to indicate that an active device is connected and BLINK to indicate that data is moving into or out of the port.
- D. Power the switch by plugging the power supply into an AC power outlet like a duplex receptacle mounted in the bottom of the On-Q Home Enclosure or an On-Q Home Power Strip Module (P/N 364266-01) and the cable into the 9 VDC connector next to the ports. Verify that the Power LED is illuminated. If it is not illuminated, then check the connections, power supply and AC source. If it is still not illuminated, then contact On-Q Home Technical Support by calling 1-800-321-2343.

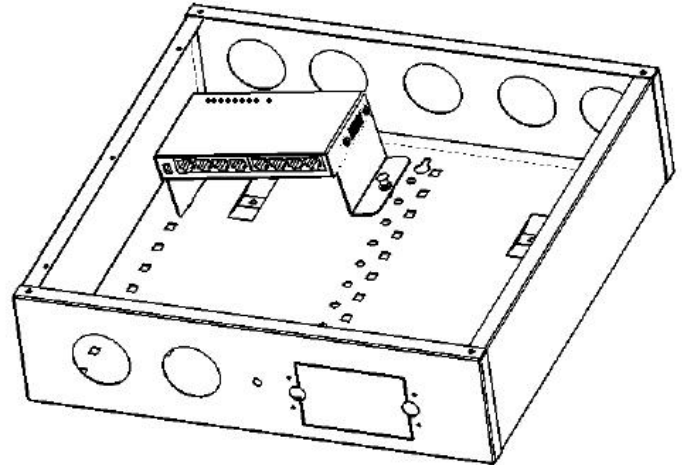


Figure 2

4. FCC Compliance

- A. This 8 Port 10/100 Ethernet Switch has been tested and complies with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio or TV communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the 8 Port Switch off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the radio or TV receiving antenna
 2. Increase the separation between the 8 Port Switch and the affected devices
 3. Connect the 8 Port Switch into an outlet on a circuit different from that to which the radio or TV is connected
 4. Consult a dealer or an experienced radio/TV technician for assistance