Hamlet

Fast Ethernet Switch
8-Port 10/100Mbps

User Manual
HN08S Rev. 2.0

www.hamletcom.com

Dear Customer,

thanks for choosing a Hamlet product. Please carefully follow the instructions for its use and maintenance and, once this item has run its life span, we kindly ask You to dispose of it in an environmentally friendly way, by putting it in the separate bins for electrical/electronic waste, or to bring it back to your retailer who will collect it for free.

We inform You this product is manufactured with materials and components in compliance with RoHS Directive 2011/65/EU, WEEE Directive 2002/96/CE, 2003/108/CE Italian Legislative Decree 2005/151, EMC Directive 2014/30/EU and LVD Directive 2014/35/EU for the following standards:
EN 55032: 2012 / AC: 2013
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024: 2010
EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013

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The complete CE declaration of conformity of the product can be obtained by contacting Hamlet at e-mail address info@hamletcom.com.
The information on the importer for your country are available in the "About us" section of the Hamlet website at www.hamletcom.com.

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Introduction

Hamlet HN08S is a high-performance Fast Ethernet switch with all ports capable of 10 or 100 Mbps auto-negotiation (NWay) operation, which means the switch could automatically negotiate with the connected partners on the network speed and duplex mode.

It is ideal for micro-segmenting large networks into smaller, connected subnets for improved performance, enabling the bandwidth demanding multimedia and imaging applications. Compared to the shared 10Mbps or 100Mbps networks, the switch delivers a dedicated 10/100Mbps connection to every attached client without bandwidth congestion issue.

This switch also supports auto MDI/ MDI-X function. Each port could be used to connect to another switch or hub without crossover RJ-45 cable.

Store-and-forward switching mode promises the low latency plus eliminates all the network errors, including runt and CRC error packets. To work under full-duplex mode, transmission and reception of the frames can occur simultaneously without causing collisions as well as double the network bandwidth. Moreover, Green Ethernet technology is supported to save power consumption.

The switch is plug and play without any software to configure and also fully compliant with all kinds of network protocols. The diagnostic LEDs on the front-panel can provide the operating status of individual port and whole system.

Package contents

Before you start to install the switch, check the following contents in this package.

- 8-Port Fast Ethernet switch
- External power adapter
- Rubber feet
- User's Manual

Features

- Complies with 10BASE-T specifications of the IEEE 802.3 standard
- Complies with 100BASE-TX specifications of the IEEE 802.3u standard
- 8 × 10/100Mbps RJ-45 NWay ports
- Supports MDI/MDI-X auto crossover
- Supports full and half duplex operation on all ports
- Supports back-pressure (half duplex) and full duplex flow control (IEEE 802.3x)
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports extensive LED indicators for network diagnostics
- Supports Green Ethernet power saving technology

LEDs definition

Please refer to the following table for LEDs definition.

HN08S front panel

LED	Status	Operation
Power	Steady Green	The switch is powered on
	Off	The switch is powered off
Link/Act	Steady Green	Valid port connection
	Blinking Green	The port transmitting or receiving data.
	Off	Port disconnected

Station connection

Connect each station to the switch by twisted-pair cable. Plug one RJ-45 connector into a port of the switch and plug the other RJ-45 connector into the station's network adapter. Connect the power adapter supplied with the product to the power input on the back of the switch and then to a wall electrical outlet.
The switch is powered immediately and automatically detects connected devices.

Switches connection

In making a switch interconnection, you could use any port to connect another switch with straight or crossover cable. As all the ports support auto MDI/MDI-X function, using a straight cable to make a switch-to-switch connection is allowed.
For cable selection, refer to the following table.

Network Speed	Cable Type	Max. Length
10Mbps	Cat. 3, 4, 5 UTP/STP	100 meters
100Mbps	Cat. 5 UTP/STP	100 meters

Note
To make this switch perform well, we strongly recommend below installation environment:

1. The switch is placed with appropriate ventilation environment. A minimum 25 mm space around the unit is recommended.

2. The switch and the relevant components are away from sources of electrical noise such as radios, transmitters and broadband amplifiers.

3. The switch is away from environments beyond recommend moisture.

Specifications

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3x full duplex flow control
Interface	8x 10/100 Mbps RJ-45 ports
Network Data Rate	10/100 Mbps Auto-negotiation
Transmission Mode	10/100Mbps: Full-duplex, Half-duplex
Buffer Memory	768K bits
MAC Address Table	1K MAC address entries
Temperature	Operating: 0 ~ 40 °C (32 ~ 104 °F) Storage: -40 ~ 70 °C (-40 ~ 158 °F)
Humidity	Operating: 10% ~ 90% RH Storage: 5% ~ 90% RH (non-condensing)
LED Indications	System: Power Ports: Link/Act
Power Supply	External power adapter 5V/0.6A
Dimensions	155 × 85 × 26 mm