Hamlet

Gigabit Switch
8-Port 10/100/1000Mbit

User Manual
HN08GTX Rev. 2.0

www.hamletcom.com

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thanks for choosing an 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 and EMC 2014/30/EU, LVD 2014/35/EU Directives for the following standards:
EN 55022: 2010 + AC: 2011, Class B
EN 61000-3-2: 2006 + A1: 2009 + A2: 2009, Class A
EN 61000-3-3: 2013
EN 55024: 2010
EN 61000-4-2: 2009
EN 61000-4-3: 2006 + A1: 2008 + A2: 2010
EN 61000-4-4: 2012
EN 61000-4-5: 2006
EN 61000-4-6: 2014
EN 61000-4-8: 2010
EN 61000-4-11: 2004
EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013

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 HN08GTX is a powerful, high-performance Gigabit Ethernet switch with 8 ports capable of 10/100/1000 Mbps auto-negotiation operation (NWay), 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. Moreover, the 10/100/1000Mbps auto-sensing ability provides an easy way to migrate 10/100Mbps to 1000Mbps network. Compared to the shared 10Mbps or 100Mbps networks, the switch delivers a dedicated 10/100/1000Mbps 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 and IEEE 802.3az Energy Efficient Ethernet technologies are 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.

Package Contents

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

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

Key Features

- Complies with 10BASE-T specifications of the IEEE802.3 standard
- Complies with 100BASE-TX specifications of the IEEE802.3u standard
- Complies with 1000BASE-T specifications of the IEEE802.3ab standard
- 8 x 10/100/1000Mbps 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
- LED indicators for network diagnostics
- Supports Green Ethernet and IEEE 802.3az power saving technologies

LEDs Definition

The Hamlet HN08GTX switch contains one power LED for the device and 8 LED indicators (Link/Act) that show the activity and connection status of each port.

Front panel view

Rear view

Please refer to the following table for LEDs definition.

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	Valid port connection and there is data transmitting/ receiving
	Off	Port disconnected

Station Connection

Connect each station to the switch by twisted-pair cable. Plug one RJ-45 connector into a RJ-45 port of the switch, and plug the other RJ-45 connector into the station's network adapter. Power on the switch and then system is ready.

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
1000Mbps	Cat. 5e, 6 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 25mm 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.

Product Specifications

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3x full duplex flow control IEEE802.3az
Interface	8x 10/100/1000 Mbps RJ-45 ports
Network Data Rate	10/100/1000 Mbps Auto-negotiation
Transmission Mode	10/100Mbps: Full-duplex, Half-duplex 1000Mbps: Full-duplex
Switching Capacity	16Gbps
Switching Forwarding Rate	11.9Mpps
Buffer Memory	128K bytes
MAC Address Table	8K
Jumbo Frame	9K bytes
Temperature	Operating: 0 ~ 40 °C (32 ~ 104 °F) Storage: -40 ~ 70 °C (-40 ~ 158 °F)
Humidity	Operating: 10% ~ 90% RH, non-condensing Storage: 5% ~ 90% RH, non-condensing
LED Indications	System: Power Ports: Link/Act
Power Supply	External power adapter 5V/1A
Dimensions	155 x 85 x 26 mm