Product Data Sheet

GE-DS-82-POE

8-Port 10/100Mbps + 2 Gigabit TP/ SFP Combo Managed PoE Switch

Overview

The UTC Fire & Security GE-DS-82 managed Ethernet port series offers eight 10/100Mbps Fast Ethernet ports with 2 Gigabit TP/SFP combo ports. The 2 Gigabit TP/SFP combo ports can be either 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Factor Pluggable) interface. These units boast a high-performance wire-speed and switch architecture capable of providing non-blocking switch fabric and throughput as high as 5.6Gbps. Its two built-in Gbe uplink ports also offer incredible extensibility, flexibility and connectivity to the core switch or servers.

Affording your current network the opportunity to grow and expand, the GE-DS-82 series provides an advanced WEB and SNMP management interface to meet this demand. With its built-in Webbased management, the GE-DS-82 offers an easy-to-use, platformindependent management and configuration facility. These switches also support standard Simple Network Management Protocol (SNMP) and can be monitored via any standard-based management software.

For efficient management via Web interface, the GE-DS-82 series can be programmed for basic switch management functions such as port speed configuration, Port Trunking, VLAN, Port Mirroring, Rapid Spanning Tree and miscellaneous configuration. Additionally, the firmware includes advanced features such as IGMP snooping, QoS (Quality of Service), broadcast storm and bandwidth control to enhance bandwidth utilization.

The GE-DS-82 series offers comprehensive Access Control List (ACL) for enforcing security to the edge. Its protection mechanisms include a port-based 802.1X user and device authentication. Moreover, the switch provides MAC filter and Static MAC for enforcing security policies to the edge. Administrators can now construct highly secured corporate networks with considerably less time and effort than before.

Standard Features

- 8-Port 10/100Base-TX RJ-45 ports with auto-MDI/MDI-X function for each port

- 2-Port Gigabit TP/SFP combo interface, SFP (Mini-GBIC) supports 100/1000 Dual Mode

- 8K absolute MAC address table, automatic source address learning and ageing, 2Mbit embedded memory for packet buffers

- PoE : Up to 8 IEEE 802.3af devices powered with up to 15.4 W for each PoE port. Auto detect of powered device (PD), circuit protection prevents power interference between ports, power feeding up to 100m

- Supports VLAN, IEEE 802.1Q Tag-based VLAN, IEEE 802.1v Protocol based VLAN, Q-in-Q tunneling

- GARP / GVRP for VLAN Management, Up to 255 VLAN groups, out of 4041 VLAN IDs, Private VLAN Edge (PVE) supported

- Supports Link Aggregation, up to 5 trunk groups, up to 8 ports per trunk group with 1.6Gbps bandwidth (Full Duplex Mode)

- IEEE 802.3ad LACP (Link Aggregation Control Protocol), Cisco ether-channel (Static Trunk)

- Spanning Tree Protocol: STP, IEEE 802.1D (STP), RSTP, IEEE 802.1w (RSTP), IEEE 802.1s (MSTP)

- Quality of Service : 4 priority queues on all switch ports, Traffic classification, WRR, Traffic-policing policies, Voice VLAN Traffic QoS

- Multicast : Supports IGMP Snooping v1 and v2, Querier mode support, Multicast VLAN Registration

- Security : IEEE 802.1x Port-Based / MAC-Based Authentication, Web / RADIUS / TACACS+ users access authentication

- Management :Console/Telnet CLI, SNMP v1/v2c/v3, SSH v1/v2, SSL v3, BOOTP and DHCP client, TFTP, SNTP, Local logging, 4 RMON groups

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Specifications

Hardware Specifications

- 8x 10/100Base-TX RJ-45 with Auto-MDI/MDI-X function for each port. All ports with PoE Injector function
- 2x 10/100/1000Base-TX RJ-45 ports (shared with SFP interfaces)
- 2x 1000Base-SX / LX / BX, shared with Port-9, Port-10, compatible with 100Base-FX SFP
- Dimensions (W) x (D) x (H) : 330 x 155 x 43.5 mm, 1U height
- Weight (gr.) : 1.2 KG
- Reset Button : < 5 sec: System reboot / > 5 sec: Factory Default

Power Specification

- Power Input : AC 100~240V, 50/60Hz
- Power Consumption : Max. 10.5 W / 32.6 BTU

Switch Specification

- Switch Architecture : Store-and-forward, broadcast storm control and runt/CRC filtering to eliminate erroneous packets to optimize the network bandwidth
- Address Table : 8K MAC address table
- Share Data Buffer : 2 Mbits
- Flow Control : Back pressure for half-duplex, IEEE 802.3x Pause frame for full-duplex
- Switch Fabric : 5.6Gbps / non-blocking
- Throughput (Packet per second) : 4.16Mpps @64Bytes
- Jumbo Frame : up to 9216 Bytes

Layer 2 Function

- Management Interface : Console, Telnet, SSH, Web Browser, SSL, SNMPv1, v2c and v3
- Port Configuration : Port disable / enable, auto-negotiation, 10/100/1000Mbps full and half duplex mode selection, Flow Control disable / enable
- Port Status : Display each port's speed duplex mode, link status and Flow control status. Auto negotiation status, trunk status
- Bandwidth Control : Input Rate Limit, Output Traffic Shaper, Allow to configure per 10K or 1M
- VLAN : IEEE 802.1Q Tag-based VLAN, IEEE 802.1v Protocol based VLAN, Q-in-Q tunneling, GARP / GVRP for VLAN Management, Up to 255 VLANs groups, out of 4041 VLAN IDs, Private VLAN Edge (PVE) supported
- Link Aggregation : Supports 5 groups of 8-Port trunk, IEEE 802.3ad LACP
- QoS : Traffic classification based on TCP / UDP Port Number, 802.1p ity, DSCP / TOS field in IP Packet
- IGMP Snooping : IGMP (v1/v2) Snooping, up to 256 multicast Groups
- Access Control List : IP-Based ACL / MAC-Based ACL, In / Out direction per port, Up to 32 rules per ACL
- SNMP MIBs : RFC-1213 MIB-2, RFC-1493 Bridge MIB, RFC-2618 RADIUS Client MIB, RFC-2665 EtherLike MIB, RFC-2674 Extended Bridge MIB, RFC-2737 Entity MIB, RFC-2819 RMON MIB (Group 1, 2, 3,9), RFC-2863 Interface MIB
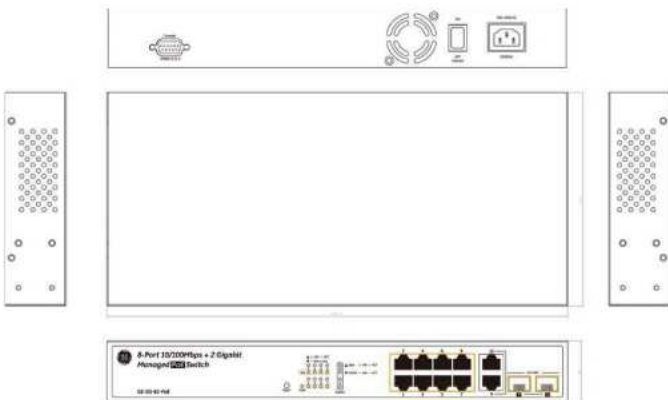
Environment Specification

- Operating Temperature : -0ºC ~ +50ºC
- Operating Humidity : Relative Humidity 20% ~ 95% (non-condensing)
- Storage Temperature : -20ºC ~ +70ºC
- Storage Humidity : Relative Humidity 20% ~ 95% (non-condensing)

Standards Conformance

- Standards Compliance : IEEE 802.3 10Base-T Ethernet
- Standards Compliance : IEEE 802.3u 100Base-T Fast Ethernet
- Standards Compliance : IEEE 802.3z 1000Base-SX/LX
- Standards Compliance : IEEE 802.3ab 1000Base-T Gigabit Ethernet
- Standards Compliance : IEEE 802.3x Full Duplex, Flow Control and Back Pressure
- Standards Compliance : IEEE 802.3ad Port trunk with LACP
- Standards Compliance : IEEE 802.1d Spanning tree protocol
- Standards Compliance : IEEE 802.1w Rapid spanning tree protocol
- Standards Compliance : IEEE 802.1s Multiple Spanning tree protocol
- Standards Compliance : IEEE 802.1p Class of service
- Standards Compliance : IEEE 802.1Q VLAN Tagging
- Standards Compliance : IEEE 802.1v Protocol VLAN
- Standards Compliance : IEEE 802.1x Port Authentication Network Control
- Standards Compliance : IEEE 802.1ab LLDP
- Regulation Compliance : FCC Part 15 Class A, CE

Diagram

Ordering Information

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UTC Fire & Security
A United Technologies Company