



*“The Connectivity Connection”™*

## **Model ESG81 9 Port GigE Switch**

8x 10/100/1000TX + 1x 1000FX



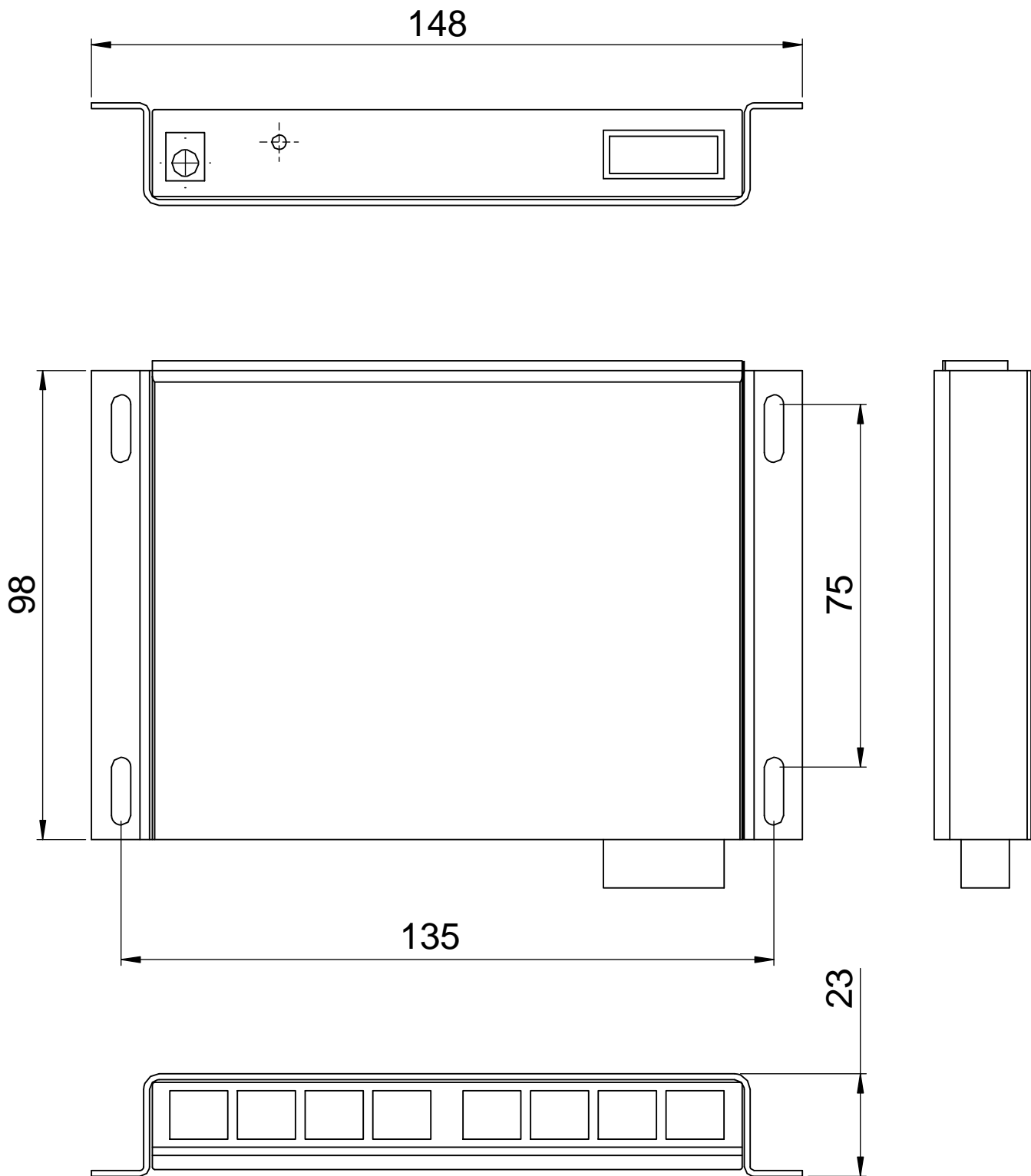
### **Features:**

ESG81, 9 Port GigE, 8x10/100/1000TX + 1x 1000FX ports, was designed for rugged use, easy installation and high performance in industrial, commercial, and business environment. Equip your office, commercial premises with the power of gigabit network. ESG81 efficiently handles high bandwidth between multiple computers, servers, instruments, industrial controls, making file sharing and data transfer faster than ever. ESG81 is able to accommodate 1000Mbps of data transfer, and can interface with 10Mbps and 100Mbps networks.

- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE-802.3x Flow Control, IEEE802.1p
- QoS compliant
- Energy Efficient, 6 Watts maximum
- Auto MDI/MDIX Auto-sensing between uplink or direct connections each port
- Plug and Play
- Support Full/Half duplex transfer mode for 10 and 100Mbps on Ports 1 to 8
- Support Full duplex transfer mode for 1000Mbps on Ports 1 to 9
- Full wire speed reception and transmission
- Supports Auto-Negotiation and duplex mode for 10/100/1000 Mbps on Ports 1 to 8 and 1000Mbps FX on Port 9
- Nine Gigabit Ethernet (GigE) ports
- Full wire speed reception and transmission
- 16Gbps Forwarding Capacity
- Store-and-Forward switching method
- DOS attack prevention – Support Ipv6
- 256 Multicast group support
- 4K entry MAC address auto learning and auto aging
- Supports 3.5Mbit RAM for data buffering
- Supports IEEE 802.1p Priority Queuing, up to 4 queues
- Extensive diagnostic LEDs
- IEEE 802.3x flow control for full duplex and back pressure flow control for half-duplex
- Compact size
- Rugged construction
- Jumbo frame support up to 9720 bytes

# Specifications

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1p QOS
Protocol	CSMA/CD, TCP/IP
Connectors	8 auto-negotiation 10/100/1000Mbps RJ-45 switching ports 1 SC 1000FX
Cable Requirements	Ethernet: 2-pair UTP Cat.3, 4, 5, up to 328ft/100m Fast Ethernet: 2-pair UTP Cat.5, up to 328ft/100m Gigabit Ethernet: 4 pair UTP Cat.5 plus, up to 328ft/100m 1000BaseSX 850nm multimode, 62.5/125um, up to 722ft/220m, 50/125 um, 1804ft/550m 1000Base-LX 1310nm single mode 10km/6.2mi
Forwarding Method	Store and forward
Switch Fabric	16Gbps Forwarding Capacity
Data Transfer Rate	Ethernet: 10bps (Half Duplex), 20Mbps (Full Duplex) Fast Ethernet: 100Mbps (Half Duplex), 200 Mbps (Full Duplex) Gigabit Ethernet (GigE): 2000 Mbps (Full Duplex)  10Mbps - 14,880pps / port 100Mbps - 148,810pps / port 1000Mbps - 1,488,100pps / port
MAC Address	4K
MAC Address Learning	Self Learning, Auto Aging
Buffer Memory	192KB
Filtering & Address Table	4K
Packet Filtering/Forwarding Rate	Full Wire Speed
Diagnostic LEDs	Per Unit: Power Per Port: Speed 1000Mbps & 100Mbps Link/Activity, Full Duplex
Dimensions	124 x 98 x 23 mm (L x W x H). Total width with wings: 147.5 mm
Power Adapter	External Power Supply: 12Vdc @ 1A
Power Consumption	6W Maximum
Temperature	Operating -10 to 55 degrees Celsius. Storage: -40 to 70 degree Celsius.
Humidity	5% to 95% RH, Non-condensing
Network Cables	Ethernet: UTP/STP Cat-3, 4, 5 Fast Ethernet: UTP/STP Cat-5, 5E, 6 Gigabit: UTP/STP Cat-5e, Cat-6 (Recommended)



ESG81

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USA