# DIGITUS® Industrial 16+2 port L2 managed Gigabit Ethernet PoE switch

**DN-651159**

**EAN 4016032490234**



**Ind.16+2-Port Gigabit L2 managed Ethernet PoE Swit 16 x GE RJ45 + 2 SFP Port, IEEE802.3at (30W)**

The Digitus DN-651159 Ethernet switch with 16x RJ45 interfaces and 2 x SFP uplinks offers numerous Layer 2 port functions for optimum network performance. It supports flow control, link aggregation and various routing strategies. The switch enables VLAN management, supports spanning tree protocols and ensures fast recovery in the event of failures. With IGMP and MLD snooping, you can optimize multicast data traffic. The switch offers advanced security features such as ACLs and supports QoS for traffic prioritization. Extensive management options such as SNMP and CLI keep you in control. The RJ45 ports can supply connected PoE devices with up to 30W each. Our switch is a reliable network solution with advanced features to meet your needs.

**16 x 10/100/1000 BASE-TX RJ45 + 2x 1000Base-Fx ports, L2 manageable, IP40 housing with redundant power supply, ideal for monitoring, control management and wireless services at -40 to 80. Ports 1-8 (RJ45) support PoE according to IEEE802.3af/at standards with up to 30W per port.**

- Supports IEEE802.3x flow control, and backpressure
- Supports store-and-forward technology for optimized data transfer
- Automatic speed and half/full duplex detection/adjustment
- Bandwidth: 56 Gbps
- Packet buffer: 4.1 Mbit
- Packet forwarding size: 42 Mbps
- Size of the MAC address table: 8 K
- Jumbo frame rate: 10240 bytes
- ESD protection: 6 kV
- EFT protection: 6 kV
- Metal housing, IP40
- 4 kV lightning protection and surge protection
- Suitable for mounting on DIN rail (top-hat rail)
- Redundant power supply with reverse polarity protection function
- Power supply: 48 to 57 V (DC)
- Power consumption: < 15 W
- Removable terminal connection
- Protection class: IP40
- Dimensions: 175.6 x 135 x 45.5 mm
- Weight: 1.2 kg
- Operating temperature: -40 to 80 ° C
- Storage temperature: -40 to 80 ° C
- Humidity: 5% to 95% (non-condensing)
- MTBF: 300,000
- Port features: IEEE 802.3x flow control, interface counter, storm control, link aggregation, static aggregation, dynamic aggregation, LACP
- Supports up to 8 aggregation groups, each with up to 8 ports
- Support for source MAC, destination MAC, source-destination MAC, source IP, destination IP, source-destination IP routing strategy
- MAC table management, port forwarding, IVL forwarding, static MAC address, support MAC address binding, support MAC address filtering, port mirroring, port-based mirroring
- Spanning tree: IEEE802.1d STP, IEEE802.1w RSTP, IEEE802.1s MSTP, ERPS (G.8032), single ring, sub-ring, multi-ring, load balancing,
- Recovery time < 50 ms
- QINQ: VLAN-based QinQ, GVRP support
- LLDP: LLDP, LLDP-MED,
- VLAN: 4094 VLANs, port-based VLAN, GVRP, protocol VLAN, MAC-based VLAN, IP subnet-based VLAN, voice VLAN
- Static entries: Port isolation support
- IGMP: IGMP snooping V1, IGMP snooping V2, IGMP snooping V3, source port check, IGMP fast leave, IGMP filter,
- MLD snooping: MLD snooping V1, MLD snooping V2, source port check, MLD fast leave, MLD filter
- ACL: ACL (IP Standard ACL), IPv4/IPv6, Extended MAC ACL, Extended IP ACL, Matching of L2, L3 and L4 fields, Logging, Forwarding, Mirroing, Speed limiting
- QoS: QoS class, re-evaluation, SP, WRR queue scheduling, ingress port-based rate limiting, ingress priority-based rate limiting, egress port-based rate limiting, egress queue-based rate limiting, policy-based QoS, storm control, 8 queues per port
- Dot1x: Port access control, user access control, MAC address access control
- Various other L2 features
- Total PoE budget: 280 W

**Attributes**

- Number of ports: 16
- PoE Power budget: 280 W
- PoE standard: IEEE802.3af (PoE)
- Ethernet speed: Gigabit
- Industrial usage: yes
- Installation type: DIN rail
- Managed: yes
- Number of ports (Uplink): 2
- Outdoorsuitable: no
- PoE (Power over Ethernet): yes
- Protection against vanadlism: no

- Uplink port connection: SFP
- VLAN: yes

**Package contents**

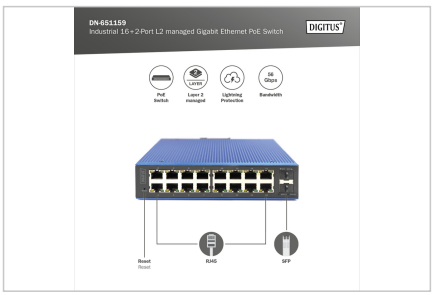
- Industrial PoE network switch
- QIG

| Logistics | | | | | | |
|---|---|---|---|---|---|---|
| | Number (pcs) | Weight (kg) | Depth (cm) | Width (cm) | Height (cm) | cm³ |
| **Packaging Unit Carton** | 12 | 14.12 | 46.50 | 39.50 | 24.00 | 44,082.00 |
| **Packaging Unit Inside** | 1 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Packaging Unit Single** | 1 | 1.18 | 7.25 | 18.60 | 20.80 | 2,804.88 |
| **Net single without Packaging** | 1 | 1.05 | 45.50 | 13.50 | 17.60 | 0.00 |

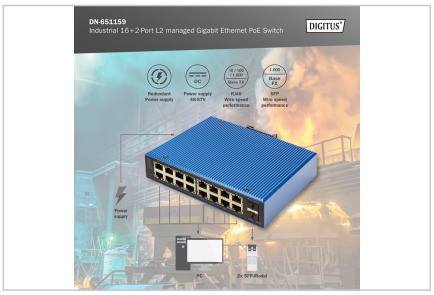
**More images:**







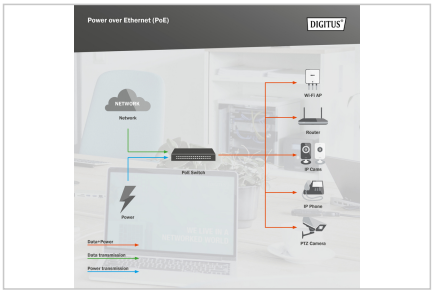












**Safety notes**

- This product is intended for indoor use only.
- Read all instructions and follow all warnings and instructions on the device.
- Do not place this appliance on an unstable surface (such as a trolley, stand, table, etc.).
- Do not use this appliance near water.
- Do not place this appliance near or above a radiator.
- The housing is equipped with openings for heat dissipation and ventilation. To prevent overheating during operation, the ventilation openings must not be blocked or covered.
- Do not place the appliance on a soft surface (e.g. bed, sofa, blanket, etc.). This will block the ventilation.
- The appliance must not be installed in a closed environment if adequate ventilation is not guaranteed.
- Do not spray any liquids onto the appliance.
- Disconnect the mains plug before cleaning. Do not use any liquid or foam cleaners.
- Clean the appliance with a damp cloth.
- Connect the device according to the power supply on the rating plate.
- To prevent damage to the appliance, it is important that all appliances are properly earthed.
- Do not place any objects on the power cable and lay it in such a way as to avoid tripping hazards.
- Use a surge protector, a regulator or an uninterruptible power supply (UPS) to protect your system from sudden, temporary and reduced power.
- Secure the system cable and mains cable properly and ensure that no objects are pressing on the cable.
- Do not insert any objects into the appliance through the openings in the housing. There is a risk of a short circuit, which can lead to fire or electric shock.
- Do not attempt to repair the appliance yourself. Always contact an authorized customer service centre.
- If any of the following conditions occur, unplug the appliance and send it to an authorized service centre for repair
- The mains cable, power supply unit or plug for the power supply is damaged or worn;
- Liquid has penetrated the appliance;
- The device has been exposed to rain or water;
- The device has been dropped or the housing has been damaged;
- The function of the device has obviously changed;
- The appliance cannot be operated as described in the operating instructions.

**EU responsible person**

EU based economic operator ensuring the product complies with the required regulations.

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