

Item no.: 387590

## EDS-4012-4GS-HV - Managed Gigabit Ethernet switch with 8 10/100BaseT(X) ports

from 1.152,77 EUR

Item no.: 387590  
shipping weight: 0.50 kg  
Manufacturer: MOXA



### Product Description

Moxa's managed Layer 2 switches are characterised by industrial-grade reliability, network redundancy and security features based on the IEC 62443 standard. We offer robust, industry-specific products with multiple industry certifications, such as parts of the EN 50155 standard for railway applications, IEC 61850-3 for energy automation systems and NEMA TS2 for intelligent transport systems. Managed Gigabit Ethernet switch with 8 10/100BaseT(X) ports, 4 100/1000BaseSFP ports, single power supply 110/220 VAC/VDC, -10 to 60°C operating temperature Ethernet interface 10/100BaseT(X) ports (RJ45 connection) - 8 - Automatic speed negotiation - Full/half-duplex mode - Automatic MDI/MDI-X connection 100/1000BaseSFP ports - 4 standards - IEEE 802.3 for 10BaseT - IEEE 802.3u for 100BaseT(X) and 100BaseFX - IEEE 802.3ab for 1000BaseT(X) - IEEE 802.3z for 1000BaseX - IEEE 802.3x for flow control - IEEE 802.3ad for Port Trunk with LACP - IEEE 802.1Q for VLAN Tagging - IEEE 802.1D-2004 for Spanning Tree Protocol - IEEE 802.1w for Rapid Spanning Tree Protocol - IEEE 802.1p for Class of Service - IEEE 802.1X for authentication Ethernet Software Features Industrial Protocols - EtherNet/IP - Modbus TCP - PROFINET IO Device Management - IPv4/IPv6 - Flow Control - Back Pressure Flow Control - DHCP Server/Client - ARP - RARP - LLDP - Fibre check - Port Mirroring (SPAN, RSPAN) - Linkup Delay - SMTP - SNMP Trap - SNMP Inform - SNMPv1/v2c/v3 - RMON - TFTP - SFTP - HTTP - HTTPS - Telnet - Syslog - Private MIB Filter - GMRP - GVRP - GARP - 802.1Q VLAN - IGMP Snooping v1/v2/v3 - IGMP Querier Redundancy protocols - STP - RSTP - Turbo Ring v2 - Turbo Chain - Ring Coupling - Dual-Homing - Link Aggregation - MRP - MSTP Security - Broadcast storm protection - Rate Limit - Trust access control - Static Port Lock - MAC Sticky - HTTPS/SSL - SSH - RADIUS - DHCP Snooping - TACACS+ - Login and Password Policy - Access control list Time Management - SNMP - NTP Server/Client - NTP Authentication - IEEE 1588v2 PTP (hardware-based) - Supported stream profiles: IEEE 1588 Default 2008, IEC 61850-9-3-2016, IEEE - C37.238-2017 Protocols - IPv4/IPv6 - TCP/IP - UDP - ICMP - ARP - RARP - TFTP - DNS - NTP Client - DHCP Server - DHCP Client - 802.1X - QoS - HTTPS - HTTP - Telnet - SMTP - SNMPv1/v2c/v3 - RMON - Syslog MIB - P-BRIDGE MIB - Q-BRIDGE MIB - IEEE8021-SPANNING-TREE-MIB - IEEE8021-PAE-MIB - IEEE8023-LAG-MIB - LLDP-EXT-DOT1-MIB - LLDP-EXT-DOT3-MIB - SNMPv2-MIB - RMON MIB Groups 1, 2, 3, 9 Switch Properties MAC Table Size - 16 K Jumbo Frame Size - 9.216 KB Max. Number VLANs - 256 VLAN ID Range - VID 1 to 4094 IGMP Groups - 512 Priority Queues - 4 Packet Buffer Size - 1 M BLEDD Interface LED Indicators - PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC Serial interface Console connection - RS-232 (Tx, Rx, GND), 8-pin RJ45 (115200, n, 8, 1) USB interface USB port - USB type A (reserved) Input/output interface Alarm contact channels - 1, relay output with a current carrying capacity of 1 A @ 24 VDC Digital input channels - 1 Digital inputs - +13 to +30 V for state 1 - -30 to +3 V for state 0 - Max. input current: 8 mA Keys Input current: 8 mA Buttons - Reset button DIP switch configuration DIP switch - Turbo ring, master, coupler, reserve Power parameters Connection - 2 removable 4-contact terminal block(s) Pre-installed power module - PWR-105-HV-Note The EDS-4012 series supports modular power supplies. The model names and power parameters are determined by the installed power supply module. Example: - EDS-4012-4GS-T + PWR-100-LV = EDS-4012-4GS-LV-T - EDS-4012-4GS-T + PWR-105-HV-I = EDS-4012-4GS-HV-T If you install a different power supply module, observe the specifications of the corresponding model. For example, if you replace the power module of the EDS-4012-4GS-LV-T with the PWR-105-HV-I, observe the technical data of the EDS-4012-4GS-HV-T. Input voltage - 110/220 VDC/VAC - single input Operating voltage - 88 to 300 VDC, 85 to 264 VAC Input current - 110-220 VAC, 50-60 Hz, 0.30-0.20 A - 110-220 VDC, 0.30-0.20 A Power consumption (max.) - 12.22 W Max. PoE output power per port - 90 W Overload protection - Supported Reverse polarity protection - Supported Physical properties IP protection - IP40 Dimensions - 55 x 140 x 120 mm (2.17 x 5.51 x 4.72 in) Weight - 827 g (1.82 lb) Installation - DIN rail mounting - Wall mounting (with optional kit) Housing - Metal Environmental conditions Operating temperature - -10 to 60°C (14 to 140°F) Storage temperature (including packaging) - -40 to 85°C (-40 to 185°F) Relative ambient humidity - 5 to 95% (non-condensing) Standards and certifications Industrial cyber security - IEC 62443-4-1 - IEC 62443-4-2 Safety - UL 61010-2-201 - EN 62368-1 (LVD) EMC - EN 55032/35 - EN 61000-6-2/-6-4 EMI - CISPR 32, FCC Part 15B Class A EMS - IEC 61000-4-2 ESD - Contact: 8 kV; Air: 15 kV - IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m - IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV - IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV - IEC 61000-4-6 CS: 10 V - IEC 61000-4-8 PFMF Vibration - IEC 60068-2-6 Shock - IEC 60068-2-27 Free fall - IEC 60068-2-32 Railway - EN 50121-4 Traffic control - NEMA TS2 Substation - IEC 61850-3 - IEEE 1613 Class 1 MTBF Time - 456,870 hours Standards - Telcordia SR332

### Specifications

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All details, up-to-date prices and availability

