

IE-SW-AL24M-24TX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of AdvancedLine managed Switch series**

Industrial networks require a future-proof infrastructure with high availability, reliability, and transparency. Managed switches increase network availability utilizing redundancies and control mechanisms as well as network diagnostics in demanding automation networks.

- Extensive set of management features enable the set-up of various redundancy, monitoring, traffic filter and security functions
- Huge variety of port count and media type enable a wide range of applications (5 to 24 ports)
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 75°C

General ordering data

| | |
|------------|---|
| Version | Network switch, managed, Fast Ethernet, Number of ports: 24x RJ45, IP30, -40 °C...75 °C |
| Order No. | 2682320000 |
| Type | IE-SW-AL24M-24TX |
| GTIN (EAN) | 4050118692396 |
| Qty. | 1 pc(s). |

IE-SW-AL24M-24TX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

| | | | |
|------------|----------|-----------------|------------|
| Depth | 108.5 mm | Depth (inches) | 4.272 inch |
| Height | 154 mm | Height (inches) | 6.063 inch |
| Width | 96.4 mm | Width (inches) | 3.795 inch |
| Net weight | 1,369 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...75 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

EMC conformity and approvals

| | | | |
|-----------------|---|-----------|--|
| EMC standards | EN 55032, EN 55024, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms | Free fall | |
| Safety standard | SELV according to EN 62368-1, UL 61010-1, UL 61010-2-201 | Shock | According to IEC 60068-2-31 according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | | |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|--|--|
| Humidity | 5 to 95 % (non-condensing) | | |
| Operating altitude | Altitude, max. | 2,000 m | |
| | Note | in acc. with UL | |
| | Altitude, max. | 6,000 m | |
| | Note | for restrictions, see the manufacturer's declaration for operating altitude in section downloads | |
| Operating temperature, max. | 75 °C | | |
| Operating temperature, min. | -40 °C | | |
| Storage temperature, max. | 85 °C | | |
| Storage temperature, min. | -40 °C | | |

Guarantee

| | |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

Interfaces

| | | | |
|-----------------------|---|------------------------|-------------------------|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Console port interface | RS-232 (RJ45 connector) |
| Function reset button | <5 sec: System reboot, >5 sec: Factory default | Number of ports | 24x RJ45 |
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

Creation date May 1, 2024 10:36:25 PM CEST

IE-SW-AL24M-24TX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 731,289 h |

Management features

| | | | |
|---------------------------------|---|-----------------------------|---|
| Device configuration | Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Local serial console port (RS-232 via RJ-45 port), Upload of a configuration file via web-interface or TFTP-Server, Command Line Interface (Telnet/SSH) | Monitoring function | SNMP v1/v2c/v3, Link Layer Discovery Protocol (LLDP), Port mirroring, Port statistics, Port monitoring, Syslog, RMON (Remote monitoring), Event based warning via E-Mail, Event based warning via relay, Event based warning via SNMP trap |
| Network redundancy | Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP), O-Ring (recovery time <10 ms), O-Chain (recovery time <10 ms), Link Aggregation Control Protocol (LACP), Fast recovery | Network traffic filter | Quality of Service (QoS), Class of Service (CoS), Type of Service (ToS), Differentiated Services Code Point (DSCP), Port based VLAN, Tag based VLAN, GVRP (GARP VLAN Registration Protocol), IGMP v2/v3, Multicast VLAN Registration (MVR), Traffic Rate Limiting |
| IP-address management | Static, DHCP-Client, DHCP-Server (port based, pool-based), DHCP Option 82, DHCP-Relay | Security functions | VLAN segmentation, Enable/disable ports, TACACS+ and IEEE 802.1X User Authentication, Access control (port based via IEEE 802.1X), Access control list (IP-based), Access control list (MAC-based), Management access security via secure IP-list and configuration of allowed access methods (web-interface, telnet, SSH), Loop protection |
| Time synchronization management | NTP server, SNTP client | Industrial protocol support | Modbus/TCP slave, PROFINET device acc. to conformance class A |

Power supply

| | | |
|-----------------------------|-----------------------------------|--------|
| Connection type | 1 removable 6-pin terminal block | |
| Current consumption | Voltage | 12 V |
| | Current | 1.2 A |
| | Voltage | 24 V |
| | Current | 0.6 A |
| | Voltage | 48 V |
| | Current | 0.3 A |
| Overload current protection | Yes | |
| Reverse polarity protection | Yes | |
| Voltage supply | 12/24/48 V DC, 2 redundant inputs | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 10.8 V |
| | Voltage, max. | 52.8 V |

Creation date May 1, 2024 10:36:25 PM CEST

IE-SW-AL24M-24TX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Switch characteristics

| | | | |
|--------------------------------|------------|--------------------------------|-----|
| Bandwidth backplane | 4.8 Gbit/s | MAC table size | 8 K |
| Max. number of available VLANs | 4,095 | Number of IGMP-Groups per VLAN | 256 |
| Packet buffer size | 1 Mbit | Priority queues | 4 |
| VLAN-ID max | 4,094 | VLAN-ID min | 1 |

Technical data

| | | | |
|-----------------------|---------------|-------------------|---------|
| Housing main material | Metal | Protection degree | IP30 |
| Speed | Fast Ethernet | Switch | managed |
| Type of mounting | DIN rail | | |

Technology

| | | | |
|----------------|--|--------------|--------------------------|
| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
| Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3x for flow control, IEEE 802.3ad for port trunk with LACP, IEEE 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1s for the Multiple Spanning Tree Protocol (MSTP), IEEE 802.1p for Class of Service, IEEE 802.1Q for VLAN tagging, IEEE 802.1X for authentication, IEEE 802.1AB for Link Layer Discovery protocol (LLDP) | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 | ETIM 9.0 | EC000734 |
| ECLASS 9.0 | 19-17-01-06 | ECLASS 9.1 | 19-17-01-06 |
| ECLASS 10.0 | 19-17-04-01 | ECLASS 11.0 | 19-17-04-01 |
| ECLASS 12.0 | 19-17-04-01 | ECLASS 13.0 | 19-17-04-01 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Creation date May 1, 2024 10:36:25 PM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

IE-SW-AL24M-24TX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity Manufacturer's declaration for operating altitude |
| Engineering Data | CAD data – STEP |
| Product Change Notification | Firmware Release Notes |
| Software | Device description – SNMP private MIB Firmware – Current Firmware |
| User Documentation | Hardware Installation Guide User manual |
| Catalogues | Catalogues in PDF-format |

IE-SW-AL24M-24TX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Accessories****Mounting kit for 19" rack assembly**

- For assembling DIN rail-based devices on 19" racks

**General ordering data**

| | | |
|------------|----------------------------|---------------------------|
| Type | RM-KIT | Version |
| Order No. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |