

Lite Managed Switches Advanced Line

Firmware 1.19 or higher

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IE-SW-AL05LM-5TX



IE-SW-AL06LM-6TX-2SC



IE-SW-AL06LM-6TX-2SCS

Lite Managed Switches Advanced Line

This Security Data Sheet provides you with a condensed overview of the security functions of the devices. It is an addition to the product specific

- Hardware Installation Guide
- User manual

Security intended use:

The device is intended for the realization of communication networks within an industrial environment. It is intended to be used in a restricted access location (e.g. locked cabinet) with no direct internet connection.

In order to protect equipment, systems, machines and networks against cyber threats, it is necessary to implement (and maintain) a complete state-of-the-art industrial security concept. The customer is responsible for preventing unauthorized access to his equipment, systems, machines and networks. Systems, machines and components should only be connected to the corporate network or the Internet if necessary and appropriate safeguards (such as firewalls and network segmentation) have been taken.

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General information

Weidmüller PSIRT (Product Security Response Team)

| Comment | Link |
|---|---|
| Weidmueller has established a PSIRT and provides information on product-specific security vulnerabilities and their elimination on the Weidmüller website "Security Advisory Board" | https://support.weidmueller.com/support-center/popular-resources/security-advisory-board |
| Weidmueller publishes security vulnerabilities of its products at VDE @CERT. | https://cert.vde.com/en/ |

Additional Security Documents

| Comment | Reference |
|--|--|
| Weidmüller Security Guideline (in preparation) | „Industrial Product Security Guideline“ at https://support.weidmueller.com/support-center |

Weidmüller security activities

Weidmüller will implement a certified Secure Product Development Process according to IEC62443-4-1.

Weidmüller will offer "Secure by Design" products in accordance with IEC62443-4-2. If required, please contact our sales staff

How to find product information

| | |
|------------------|---|
| Device type | Physical/optic: Type plate on device, Label on packaging Web interface: „Device Name“ on device homepage, Note 1 Command Line Interface: „show system-info“ -> „System Name“, Note 1 SNMP: „sysName“ (mib-2.system), Note 1 Fieldbus: „Product Name“ via Modbus/TCP, Note 1, Note 2 Note 1: changeable by customer; Note 2: Modbus/TCP is disabled by default |
| Software version | Physical/optic: no Web interface: „Software Version“ on device homepage Command Line Interface: „show system-info“ -> „Software Version“ SNMP: „swFwVer.1“ (private mib) Fieldbus: Modbus/TCP, Note: disabled by default |
| Hardware version | Physical/optic: Type plate on device, Label on packaging |
| MAC address | Physical/optic: Type plate on device, Label on packaging Web interface: „MAC Address“ in menu „System Information“ Command Line Interface: „show system-info“ command |
| Serial number | Physical/optic: Type plate on device, Label on packaging Web interface: „Serial Number“ in menu „System Information“ |

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Technical information

Interfaces

| Type | No | Default | Can be changed | Comment |
|--------------|-----------------------|---------|----------------|--|
| Ethernet | Device type dependent | Active | Yes | Disable unused ports |
| Reset button | 1 | Active | No | Pressing only possible with a small object (not possible with fingers). Device is reset to factory settings after 5 seconds. |
| | | | | |

Network access functions

| Function | Default | Can be changed | Comment |
|-------------------|----------|----------------|--|
| Port usage | Active | Yes | Disable unused ports |
| VLAN segmentation | Disabled | Yes | Isolate different users in the network thanks to VLAN segmentation |
| | | | |

Component access functions

| Function | Default | Can be changed | Comment |
|---|----------|----------------|---|
| Login & Password | Active | Yes | Default credentials: Login: admin, Password: Detmold Strongly recommended to change to a strong and individual password! |
| User authentication via external server | Disabled | Yes | Only users registered in an external server (TACACS+) may access to the switch after authentication |
| Web via HTTPS | Active | Yes | Secure web access. Recommended for web access. |
| Web via HTTP | Active | Yes | Not secure web access. Not recommended, disable function |
| CLI via Ethernet port using SSH | Active | Yes | Secure CLI access. |
| CLI via Ethernet port using TELNET | Active | Yes | Not secure CLI access. Not recommended, disable function |
| SNMP (V1,V2c, V3) | Disabled | Yes | Recommended SNMP V3 if required because SNMP V2c is not secure |
| Modbus/TCP | Disabled | Yes | Get switch information via unsecure Modbus/TCP |
| Specific IP addresses | Disabled | Yes | Specify the IP address (or IP address range) that can access to the management of the switch |
| | | | |

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Technical information

Software and Data

| Function | Default | Can be changed | Comment |
|------------------|-----------|----------------|--|
| Backup & Restore | On demand | | The configuration of the switch can be stored in a file; similarly, a configuration file can be uploaded on a switch. |
| Firmware update | On demand | | From the management of the switch the user can easily upgrade its firmware (FW) whenever any new version is available. Latest FW version of every product will always be available at Weidmüller's online catalogue. |
| Logging | Active | No | The switch will always store the main events in a log. This log can be displayed and downloaded from the Management System and can also be sent to a Syslog server.. |
| Syslog | Disabled | Yes | Send logging information to an external Syslog server |

Services and Ports

| Function | Port | Protocol | Default | Can be changed | Comment |
|----------------------|------|----------|---------|----------------|------------------------------------|
| HTTP | 80 | TCP | Opened | Yes | Web access unsecure |
| HTTPS | 443 | TCP | Opened | Yes | Web access secure |
| TELNET | 23 | TCP | Opened | Yes | CLI access |
| SSH | 22 | TCP | Opened | Yes | CLI access secure |
| SNMP | 161 | UDP | Closed | Yes | Simple Network Management Protocol |
| NTP Client or Server | 123 | UDP | Closed | Yes | Time synchronization |
| Modbus/TCP | 502 | TCP | Closed | Yes | Access to Modbus registers |

Additional Support Center information

| Headline | Comment | Reference |
|----------|---|---|
| General | Further product-specific information and help can be found in the Weidmüller Support Center. Use the product type (e.g. IE-SW-AL05M-5TX) in the search field. | https://support.weidmueller.com/support-center/ |