

Fast Switches Advanced & Substation Line

Firmware 1.12 or higher

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IE-SW-AL08M-8TX



IE-SW-AL08M-TX-2GT



IE-SW-AL10M-8TX-2GC



IE-SW-AL16M-16TX



IE-SW-AL18M-16TX-2GC



IE-SW-AL24M-24TX



IE-SW-SL10M-7TX-3GC-HV



IE-SW-SL10M-7TX-3GC-LV

Fast Switches Advanced & Substation 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	<p>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</p> <p><small>Note 1: changeable by customer; Note 2: Modbus/TCP is disabled by default</small></p>
Software version	<p>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</p>
Hardware version	<p>Physical/optic: Type plate on device, Label on packaging</p>
MAC address	<p>Physical/optic: Type plate on device, Label on packaging Web interface: „MAC Address“ in menu „System Information“ Command Line Interface: „show system-info“ command</p>
Serial number	<p>Physical/optic: Type plate on device, Label on packaging Web interface: „Serial Number“ in menu „System Information“</p>

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Technical information

Interfaces

Type	No	Default	Can be changed	Comment
Ethernet	Device type dependent	Active	Yes	Disable unused ports
Console	1	Active	Yes	Disable console when Command Line Interface not used
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
Static MAC-address table	Disabled	Yes	Assign a specific MAC address to any specific port; that port will only accept traffic coming from that specific MAC address (device)
MAC Blacklist	Disabled	Yes	List different MAC addresses that will never receive any traffic. All the frames with a destination MAC address included in the list will never be forwarded. The target device will never receive any frame
IP Guard	Disabled	Yes	The traffic of each port can be controlled via specific list of allowed IP/MAC addresses. The traffic coming from IP/MAC addresses not included in the list will be blocked
Device authentication via RADIUS server (IEEE 802.1X)	Disabled	Yes	Port-based access control procedure that prevents unauthorized access to a network by requiring users to first submit credentials for authentication. One or more central servers (RADIUS) determine whether the user is allowed to access to the network
VLAN segmentation	Disabled	Yes	Isolate different users in the network thanks to VLAN segmentation

Technical information

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 Console	Active	Yes	Secure console input via Command Line Interface (CLI) Recommended to use only one secure device access channel. If not used 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
Specific VLAN ID	VLAN ID: 0	Yes	Program a specific VLAN ID to access to the management of the switch. It will only be possible to manage the switch using ports where this specific VLAN ID is accepted

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

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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-AL08M-8TX) in the search field.	https://support.weidmueller.com/support-center/