

Ruggedized Media Switch HKDU136100/2 4xPoE+



Features

- Fanless Gigabit Ethernet Switch
- Layer-2+ store-and-forward, full wire-speed, non-blocking on all ports
- temperature range -25°C to +65°C
- 1000Base-X SFP slot
- 4x 10/100/1000Base-T (RJ-45) Auto-Negotiation IEEE 802.3at PoE+ (max. 30 W/Port)
- Limitation of the total power consumption of the switch to max. 80 W
- Installed holder for DIN-rails
- Compatibility to standard CISCO Switches verified
- Supports all common management standards
- Web Manager (HTTP/HTTPS)
- Telnet/SSH/Console, incl. standard-commands (ping, traceroute, etc.)
- SNMP v1/v2c/v3 with View-based Access Control Model (VACM) and User-based Security Model (USM)
- IPv4/IPv6 Dual Stack
- Modular MicroSD memory card for configuration, CLI scripts, firmware, encrypted data and MAC address (optional)

Application

Applications that demand a high level of robustness and reliability, such as large scale WLAN coverage, building automation or IP video. The very compact switches excel with extremely low space requirements and are used in switching cabinets without defined environmental conditions.

Design

The Micro Switch excels by virtue of its compact package and can especially be used where little space is available, such as in small enclosures or electric switchgear. With its 45 mm package, the Micro Switch fits precisely in standard cut-outs and a mounting supplied allows it to be installed directly on DIN rails. The monolithic design paired with highest robustness and reliability ensures short deployment cycles. High Performance 800 MHz ARM CPU



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Technical Data

Switch

Type	Gigabit Ethernet Switch Layer 2+, IEEE 802.3 compliant
Performance	Store-and-forward Full wire-speed, non-blocking on all ports
MAC addresses	8.192 addresses, automatic learning and aging
Jumbo Frames	max. 10.240 Bytes
VLANs	Tagging IEEE 802.3ac Priorisation IEEE 802.1p VLAN IDs 0..4095 256 VLANs Static and dynamic VLAN table VLAN-Modes: access, trunk, hybrid
Quality of Service	4 hardware-queues per port prioritisation according to: - IPv4/IPv6, - VLAN priority IEEE 802.1p and port queue weighting strict or weighted, configurable
Management	CLI: telnet, ssh Web: http, https SNMPv1, SNMPv2c, SNMPv3 MICROSENS NMP-Software

Twisted-Pair Ports

Number	4
Type	Gigabit Ethernet, Triple Speed 10/100/1000Base-T
Connector	RJ-45 port, shielded
Cable type	Twisted-Pair cable, Category 5e, impedance 100 Ohm, length max. 100 m
Flow Control	Pause Frames (IEEE 802.3x), configurable
Pin out	Auto MDI/MDI-X, Auto Polarity
PoE	Power Sourcing Equipment (PSE) IEEE 802.3 af/at Class 0, max. 30 W Forced-mode (Legacy Devices)

Fiber Port

Type	SFP (Dual Speed) 100/1000Base-X, support of SFP digital diagnostics function.
Connector	LC typ. (depending on SFP)
Flow Control	Pause Frames (IEEE 802.3x), configurable

Control Panel

Reset button	Reset of the switch, new upload of the latest stored configuration (direct hardware function)
System button	Request of the IP configuration for management, reset back to factory default settings

Environmental Conditions

Temperature	Operation -25..+65 °C Storage -25..+85 °C
Humidity	10..90%, non condensing

Displays

Type	14 LEDs, detachable
Link	Twisted pair ports 1..4 Link at port. Flashing at data traffic Port blocked (via protocol) Port Access Control rejected
- green	
- orange	
- red	
PoE	Twisted pair ports 1..4 and 6 PoE supplying PoE+ active PoE Standby PoE failure
- green	
- blue	
- orange	
- red	
On (switch status)	ready for operation starting sequence
- green	
- flashing	
Sys	Factory reset without IP reset in progress Factory reset including IP reset in progress Process completed Flashing while Firmware update in progress
- blue	
- violet	
- green	
- orange	
LED-modes	Standard-mode Standard without flash Only ON- and Sys-LED all LEDs off permanent LED test
- Dynamic	
- Static	
- Quiet	
- Dark	
- L-show	

Power Supply

Input	44..57 VDC (54 VDC typ.)
Power	Typ. 4,5 W (without PoE)
Consumption	max. 80 W (incl. PoE) (full power only with suitable installation conditions)
Connectors	3 pin screw connector, PE/-/+
Grounding (PE)	6,3 mm flat-pin plug

Standards

CE	2014/30/EU (EMC) 2015/35/EU (Low voltage)
Safety	EN 60950-1
Emitted interference	EN 55022
Immunity	EN 55024

Reliability

MTBF	100.000 h
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Ordering Data

PRODUCT NUMBER	DESCRIPTION
HKDU136100/2	Media switch 4xPoE+

Mechanical Dimensions

Dimensions 90 x 78 x 45 mm (w x d x h, without connectors)
Mounting depth 34 mm
Weight 350 g

