

# KN-812GBTME

Industrial L2 switch with management, 12 SFP-ports

- DIN-rail mounting
- Copper ports: 8x10/100/1000TX, RJ45
- Optical-fibre ports: 12x100/1000MBits/S
- with management, Layer2, ring-capable
- Power supply 12-48VDC



This high-quality and robust switch has 12 SFP-ports and is thus highly suitable as a central switch for smaller and medium network. With 12 connections the switch enables the construction of one or more fault-tolerant optical-fibre rings. In case of an interruption the rings close automatically in less than 50ms, which improves the availability of the system. There are eight SFP slots for the backbone for 100/1000BaseSX/LX/ZX and four SFP slots for 1000BaseSX/LX/ZX which can be implemented for multimode or singlemode. The switches can also be used as single devices, for point-to-point connections or as connection modules. The extended possibilities of the management software enable the use of the switch in high demanding network systems. Easy top hat rail mounting. Normed plugs (RJ45 resp. LC) ensure all electrical and optical connections.

## Video network special features

### Video-friendly features

Extra high backplane performance for a smooth video transmission with all ports assigned. Support of Jumbo Frames up to 9600Bytes by 100MBit/s. MAC-address restriction ensures port security.

## More information

### Spezielle Eigenschaften

Port configuration: USB Typ A slot for FW-renewal, configuration backup, boot up and syslogAlarm port: Potential-free switching contact, max. 1A, 24VDCRest button: Multifunctional rest buttonUSB-config-port: For FW-update, backup, restore, boot up and syslog, USB2.0 A-TypDiagnosis: RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP



## Technical data

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### General properties

supply voltage	12-48VDC, redundant supply is possible, brackets
power consumption	Max. 20W
operating temperature	-40°C to +75°C
dimensions	145 x 91 x 118mm (Height x Width x Length)
weight	1,4kg
Testing standards	EMV: IEC61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8 EMI: FCC Part 15 Class A, EN61000-3-2, -3-3, -6-4, EN55032, EN55011 Freier Fall: IEC60068-2-32 Schock: IEC60068-2-27 Vibration: IEC60068-2-6 Bahn Norm: EN0121-4, EN50155 Transport: NEMA TS2 Substation: IEC61850-3, IEEE1613 Marine: DNV

### interfaces

copper ports	8 x 10/100/1000TX
optical fibre ports	8 x 100/1000 and 4 x 1000 SFP

### network properties

backplane	40Gbit/s
MAC-table	16k
configuration	WEB Console (Web GUI- maybe similar to Webserver) , Telnet, CLI, SNMP v1/v2/v3, TFTP, SSH, SSL, RMON, USB, DHCP Server/Client, Relay Option 82, NTP, uPnP
port settings	Port disable/enable. Auto-negotiation 10/100/1000Mbps. Flow control disable/enable. Data rate control on each port.
port status	Display per port speed link status, flow control status. Auto negotiation status, trunk status
VLAN	802.1Q Tagged based VLAN, up to 4094 VLAN-groups, Q-in-Q
link aggregation	802.3ad LACP, static Trunk, 12 gruppen with 16-Ports
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection



security	FCC Class A, CE, UL 802.1X, RADIUS, TACACS+, SSL, SSH
multicast	IGMP v1/v2/v3 snooping, up to 1023 multicast groups
topology	STP, RSTP, MSTP, ERPS v1/v2
standards	802.3, 10Base-T Ethernet 802.3u, 100BaseTX und 100BaseFX Fast Ethernet 802.3ab, 1000Base-T 802.3z, 1000Base-X 802.3x, Flow Control and Back Pressure 802.1d, Spanning Tree 802.1w, Rapid Spanning Tree 802.1s, Multiple Spanning Tree ITU-TG.8032 / Y.1344 Ethernet Ring Protection Switch IEEE 802.3ad/802.1AX LACP 802.3af Power over Ethernet 802.3at Power over Ethernet PoE+ 802.1p, Class of Service 802.1q, VLAN Tag 802.1x, User Authentication (RADIUS) 802.1ab LLDP

## Product variants

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**KN-812GBTME**

without SFPs  
without supply

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*Version 13.11.2018, Changes without notice*