

KSwitch D10 MMT Series



Kontron TSN Ethernet KSwitch D10 MMT Series

- ▶ Managed Time Sensitive Networking (TSN) Ethernet switch
- ▶ 8-port switch with 6x 1000/100/10 and 2x 2500/1000/100/10Base-T
- ▶ Option with 2x SFP ports for 2.5G fiber and copper transceivers
- ▶ Dual redundant 12 VDC to 56 VDC input
- ▶ Industrial grade, highly reliable and long-term available

POSSIBILITIES START HERE



KSwitch D10 MMT Switch Series

The Kontron KSwitch D10 MMT series offers cost-effective web-managed industrial TSN switches with 8 Gigabit Ethernet ports providing easy to use plug-n-play connectivity. Copper and fiber optics ports are available. Due to the standard compliance,

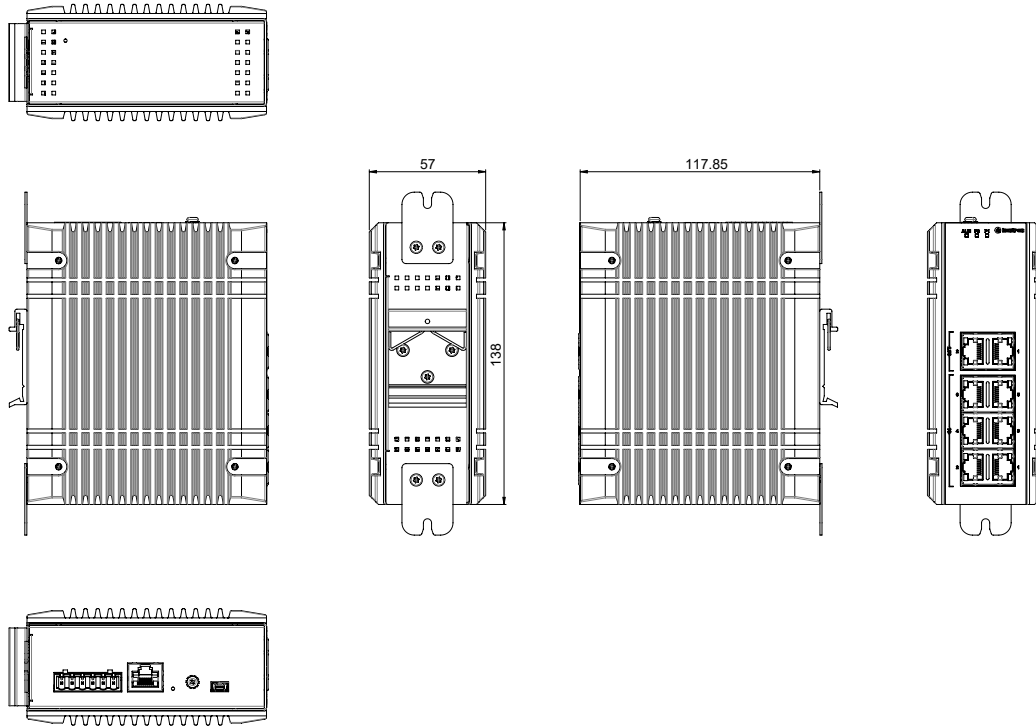
the KSwitch D10 MMT series can easily be integrated in factory production lines, embedded into a machine control system or applied for any network expansion. It is the perfect solution for state-of-the-art TSN applications and edge site installation.

▶ TECHNICAL INFORMATION

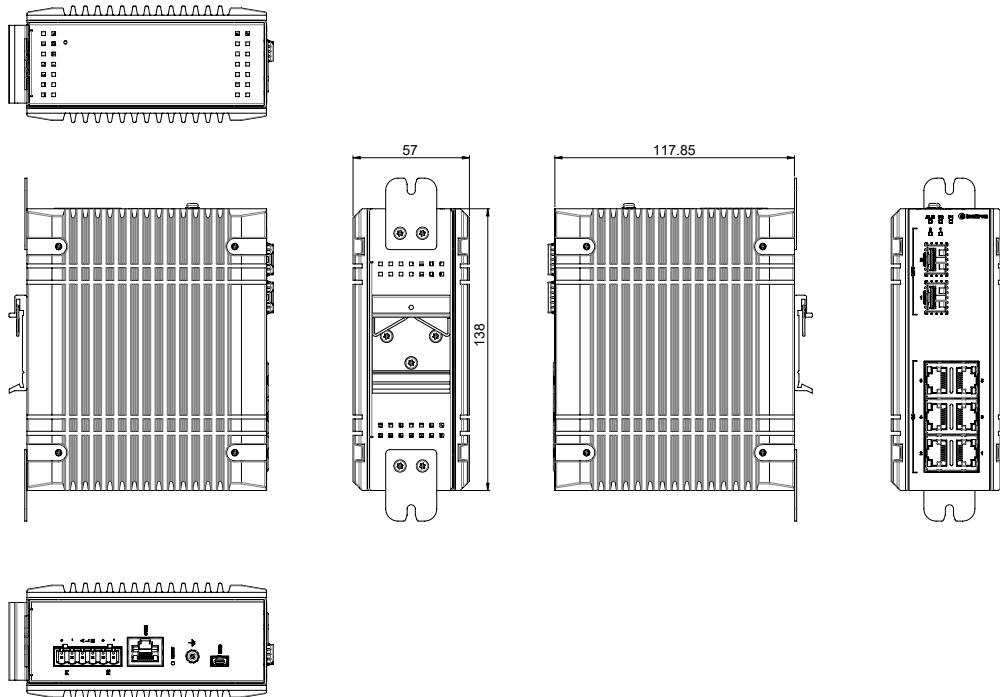
NETWORK	OPERATING MODE	Store and forward, full wire-speed/non-blocking Gigabit switchcore
RJ45 COPPER PORTS	SPEED	6x 10/100/1000Mbps RJ45 ports + 2x 10/100/1000/2500Mbps (for copper version)
	MDI/MDIX AUTOCROSSOVER AUTO-NEGOTIATION/DUPLEX	Support straight or cross wired cables 10/100/1000/2500 Mbps copper speed autonegotiation, full and half duplex
FIBER PORTS	PORT TYPES SUPPORTED OPTIMAL FIBER CABLE	Up to 2x 1000/2500 Mbps SFP Slots Typical 50 or 62.5/125 µm for multimode (mm) Typical 8 or 9/125 µm for single mode (sm)
PROTOCOL & STANDARDS		IEEE 802.1AS Rev2011, 802.1Qci, 802.1Qav, 802.1Qbv, 802.1Qbu & 802.3br, 802.1CB, IEEE 802.1D/w, IEEE 802.1Q/p, IEEE 802.1ab, IEEE 802.1X 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, , IEEE 802.3ad LLDP, IPv4/IPv6, SNMP v1/v2c/, TFTP, ARP, RARP, Telnet, Syslog, Flow Control, Back Pressure, ICMP, UPD, TCP IEEE 1588 Rev 2
NETWORK REDUNDANCY	SPANNING TREE PROTOCOL PORT TRUNK / LACP	IEEE 802.1D/1w/1S, STP/RSTP/MSTP Static trunk or LACP (Link Aggregation Control Protocol)
BRIDGE, VLANS, PROTOCOLS	FLOW CONTROL MAX VLANS VLAN TYPES MULTICAST PROTOCOLS	IEEE 802.3x (full duplex) and back-pressure (half duplex) 4095 Port-based VLAN, IEEE 802.1Q tag-based VLAN IGMP v1, v2, up to 255 multicast groups IGMP snooping, querying IEEE 802.1ab LLDP
	LLDP	
TRAFFIC MANAGEMENT & QOS	PRIORITY NUMBER OF QUEUES PER PORT SCHEDULING SCHEMES	IEEE 802.1p QoS 8 Strict Priority Queuing (SPQ), Deficit-Weighted Round Robin Queuing (DWRR)
SECURITY	PORT SECURITY	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control, IEEE802.1X
	STORM CONTROL	Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters
MANAGEMENT	USER MANAGEMENT INTERFACES MANAGEMENT SECURITY UPGRADE & RESTORE	Web-based management, Command Line Interface SNMP V1, V2c, Trap, Telnet (5 sessions) HTTPs, SSH, Access Management, Loop Protection TFTP/HTTP for Configuration Import / Export TFTP/HTTP for firmware upgrade
	DIAGNOSTIC	Syslog, Level Info / Warning / Error Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter ICMP Ping
	DHCP SNTP SYSTEM STATUS GREEN ETHERNET	Client Mode, Server Mode, Relay Mode, Snooping yes Device info/status; Ethernet port status Port power savings
POWER	POWER INPUT INPUT VOLTAGE RANGE REVERSE POWER PROTECTION POWER CONSUMPTION	Redundant power input, removable terminal block 12-56 VDC yes 10 W max.
INDICATORS	POWER STATUS INDICATION ETHERNET PORT INDICATION RELAY OUTPUT	Power input status Link & speed 1 A, 24 V, Normal close
ENVIRONMENTAL & COMPLIANCE	OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY EMC SAFETY ROHS & WEEE MTBF PROTECTION ALTITUDE	-40 °C ~ 70 °C (cold startup at -40 °C) -40 °C ~ 85 °C 5 ~ 93 % (non-condensing @40 °C) EN 55032, EN 55035, EN 61000-6-2:2005, EN 61000-6-4, FCC EN 62368-1; designed to meet UL RoHS (Pb free), REACH and WEEE compliant tbd IP30 3000 m
MECHANICAL	DIMENSION (H x D x W) WEIGHT INSTALLATION	150 x 100 x 60 mm) approx. 350 g DIN-Rail mounting, wall mounting

► MECHANICAL DRAWING

D10 MMT 8-port series with RJ45



D10 MMT 8-port series with SFP



▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION	1000BaseT(X)	1000Base FX
STANDARD CONFIGURATIONS			
KSWITCH D10 MMT 8G	Industrial 8-port managed TSN Ethernet switch with 6 10/100/1000 BaseT(X), 2 10/100/1000/2500 BaseT(X), -40 °C to 75 °C of operating temperature, dual DC power input 12 V to 56 V	8	
KSWITCH D10 MMT 6G-2GS	Industrial 8-port managed TSN Ethernet switch with 6 10/100/1000 BaseT(X) and 2 100/1000/2500 FX SFP Slot, -40 °C to 75 °C of operating temperature, dual DC power input 12 V to 56 V	6	2
ON REQUEST			
KSWITCH D10 MMT 6G	Industrial 6-port managed TSN Ethernet switch with 6 10/100/1000 BaseT(X), -40 °C to 75 °C of operating temperature, dual DC power input 12V to 56V	6	
PoE SUPPORT	Please ask		
PACKAGE CONTENTS	KSwitch D10 MMT switch, DIN-Rail mounting kit		
ACCESSORIES			
SFP MODULES	on request		
230 V AC TO DC POWER ADAPTER	on request		

▶ GLOBAL HEADQUARTERS

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