

# Switch D10 MMT Series

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## Kontron TSN Ethernet KSwitch D10 MMT Series

- ▶ Managed Time Sensitive Networking (TSN) Ethernet switch
- ▶ 8-port switch with 6x 1000/100/10 or 2x 2500/1000/100/10Base-T Gigabit Ethernet
- ▶ 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,

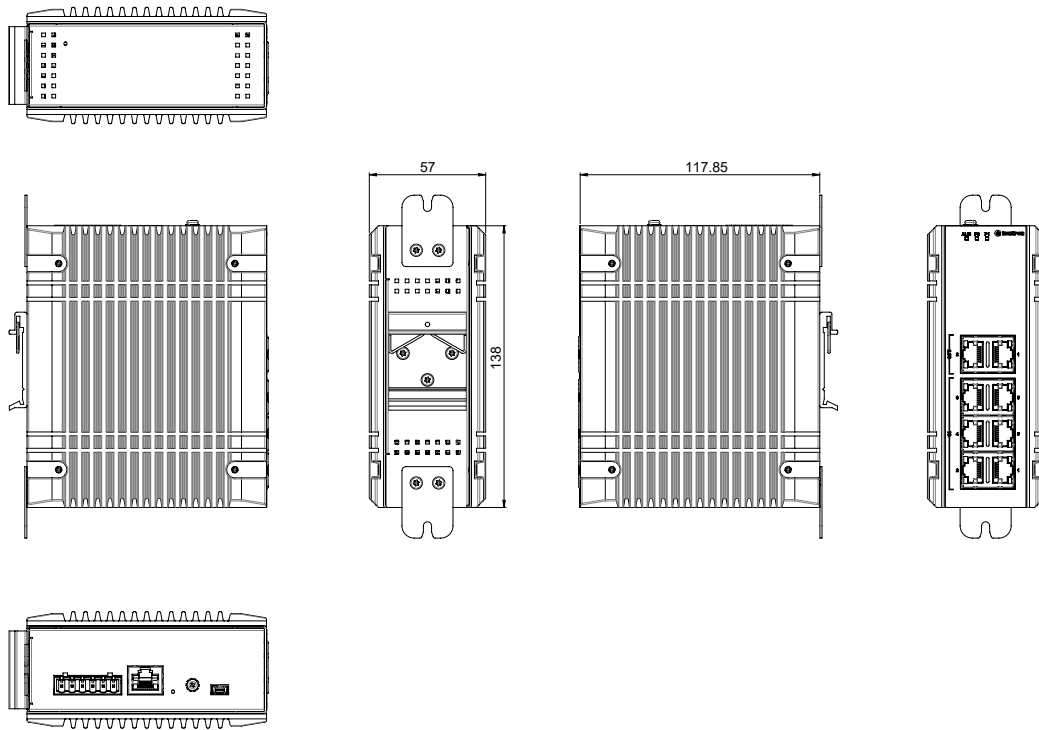
the KSwitch D10 MMT series can easily be integrated in factory production lines, embedded into a machine control system or applied for any network expansion. It is the perfect solution for state-of-the-art TSN applications and edge site installation.

### ▶ TECHNICAL INFORMATION

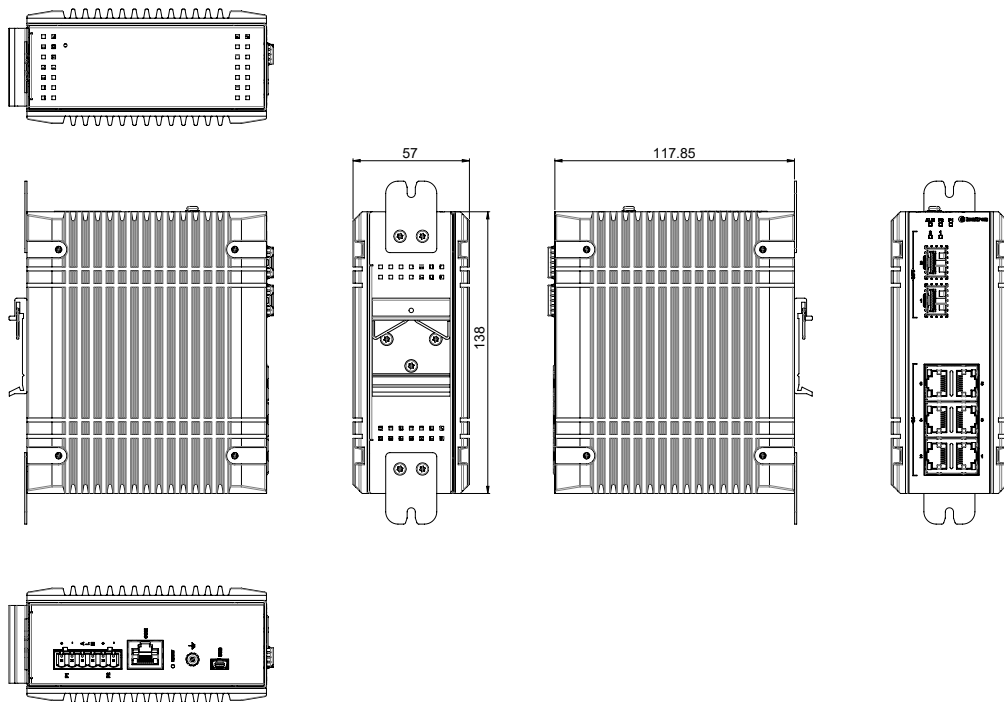
<b>NETWORK</b>	<b>OPERATING MODE</b>	Store and forward, full wire-speed/non-blocking Gigabit switchcore
<b>RJ45 COPPER PORTS</b>	<b>SPEED</b>  <b>MDI/MDIX AUTOCROSSOVER AUTO-NEGOTIATION/DUPLEX</b>	6x 10/100/1000Mbps RJ45 ports + 2x 10/100/1000/2500Mbps (for copper version) Support straight or cross wired cables 10/100/1000/2500 Mbps copper speed autonegotiation, full and half duplex
<b>FIBER PORTS</b>	<b>PORT TYPES SUPPORTED OPTIMAL FIBER CABLE</b>	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)
<b>PROTOCOL &amp; STANDARDS</b>		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, UDP, TCP IEEE 1588 Rev 2
<b>NETWORK REDUNDANCY</b>	<b>SPANNING TREE PROTOCOL PORT TRUNK / LACP</b>	IEEE 802.1D/1w/1S, STP/RSTP/MSTP Static trunk or LACP (Link Aggregation Control Protocol)
<b>BRIDGE, VLANS, PROTOCOLS</b>	<b>FLOW CONTROL MAX VLANS VLAN TYPES MULTICAST PROTOCOLS</b>  <b>LLDP</b>	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
<b>TRAFFIC MANAGEMENT &amp; QOS</b>	<b>PRIORITY NUMBER OF QUEUES PER PORT SCHEDULING SCHEMES</b>	IEEE 802.1p QoS 8 Strict Priority Queuing (SPQ), Deficit-Weighted Round Robin Queuing (DWRR)
<b>SECURITY</b>	<b>PORT SECURITY</b>  <b>STORM CONTROL</b>	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control, IEEE802.1X Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters
<b>MANAGEMENT</b>	<b>USER MANAGEMENT INTERFACES MANAGEMENT SECURITY UPGRADE &amp; RESTORE</b>  <b>DIAGNOSTIC</b>  <b>DHCP SNTP SYSTEM STATUS GREEN ETHERNET</b>	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 Syslog, Level Info / Warning / Error Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter ICMP Ping Client Mode, Server Mode, Relay Mode, Snooping yes Device info/status; Ethernet port status Port power savings
<b>POWER</b>	<b>POWER INPUT INPUT VOLTAGE RANGE REVERSE POWER PROTECTION POWER CONSUMPTION</b>	Redundant power input, removable terminal block 12-56 VDC yes 10 W max.
<b>INDICATORS</b>	<b>POWER STATUS INDICATION ETHERNET PORT INDICATION RELAY OUTPUT</b>	Power input status Link & speed 1 A, 24 V, Normal close
<b>ENVIRONMENTAL &amp; COMPLIANCE</b>	<b>OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY EMC SAFETY ROHS &amp; WEEE MTBF PROTECTION ALTITUDE</b>	-40 °C ~ 75 °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
<b>MECHANICAL</b>	<b>DIMENSION (H x D x W) WEIGHT INSTALLATION</b>	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
<b>STANDARD CONFIGURATIONS</b>			
<b>KSWITCH D10 MMT 8G</b>	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	
<b>KSWITCH D10 MMT 6G-2GS</b>	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
<b>ON REQUEST</b>			
<b>KSWITCH D10 MMT 6G*</b>	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	
<b>PoE SUPPORT</b>	Please ask		
<b>PACKAGE CONTENTS</b>	KSwitch D10 MMT Switch, DIN-Rail mounting kit		
<b>ACCESSORIES</b>			
<b>SFP MODULES</b>			
<b>230 V AC TO DC POWER ADAPTER</b>			

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## ▶ GLOBAL HEADQUARTERS

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