

# KSWITCH D4 MF SERIES

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## Kontron Fast Ethernet KSwitch D4 MF Series

- ▶ Up to 9-port DIN-Rail Industrial Ethernet Switch
- ▶ Fast Ethernet, web-managed Layer 2, copper & fiber ports
- ▶ Wide range, dual input DC power supply, alarm output
- ▶ Cost effective and modular
- ▶ Industrial grade, highly reliable, long-term available

POSSIBILITIES START HERE

## KSWITCH D4 MF SWITCH SERIES

The Kontron KSwitch D4 MF series offers cost-effective web-managed Industrial Ethernet Switches with up to 9 Fast Ethernet ports providing easy to use plug-n-play connectivity. Copper and fiber optics ports are available. The Kontron KSwitch D4 MF series

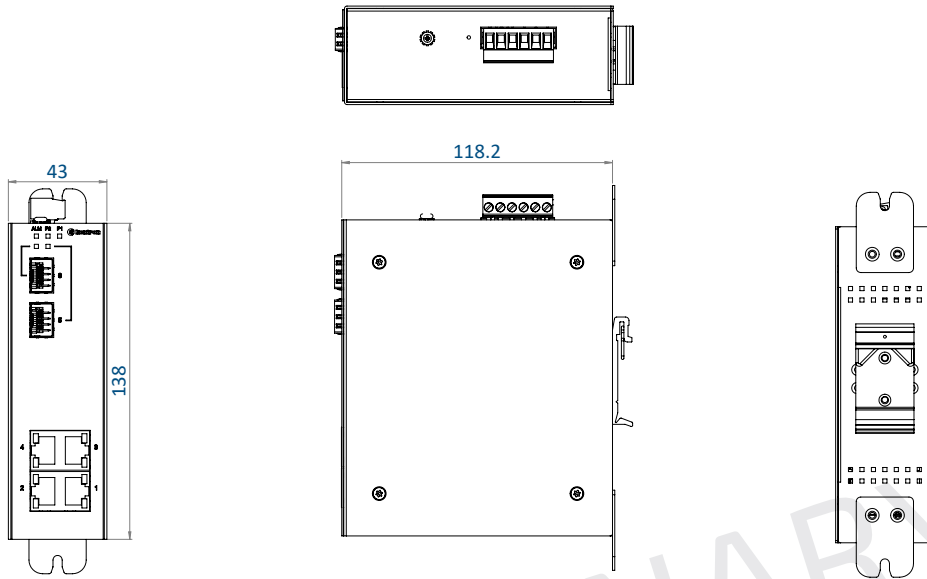
can easily be integrated in factory production lines, embedded into a machine control system or applied for any simple network expansion. It is the perfect solution for general applications and edge-site installation.

### TECHNICAL INFORMATION

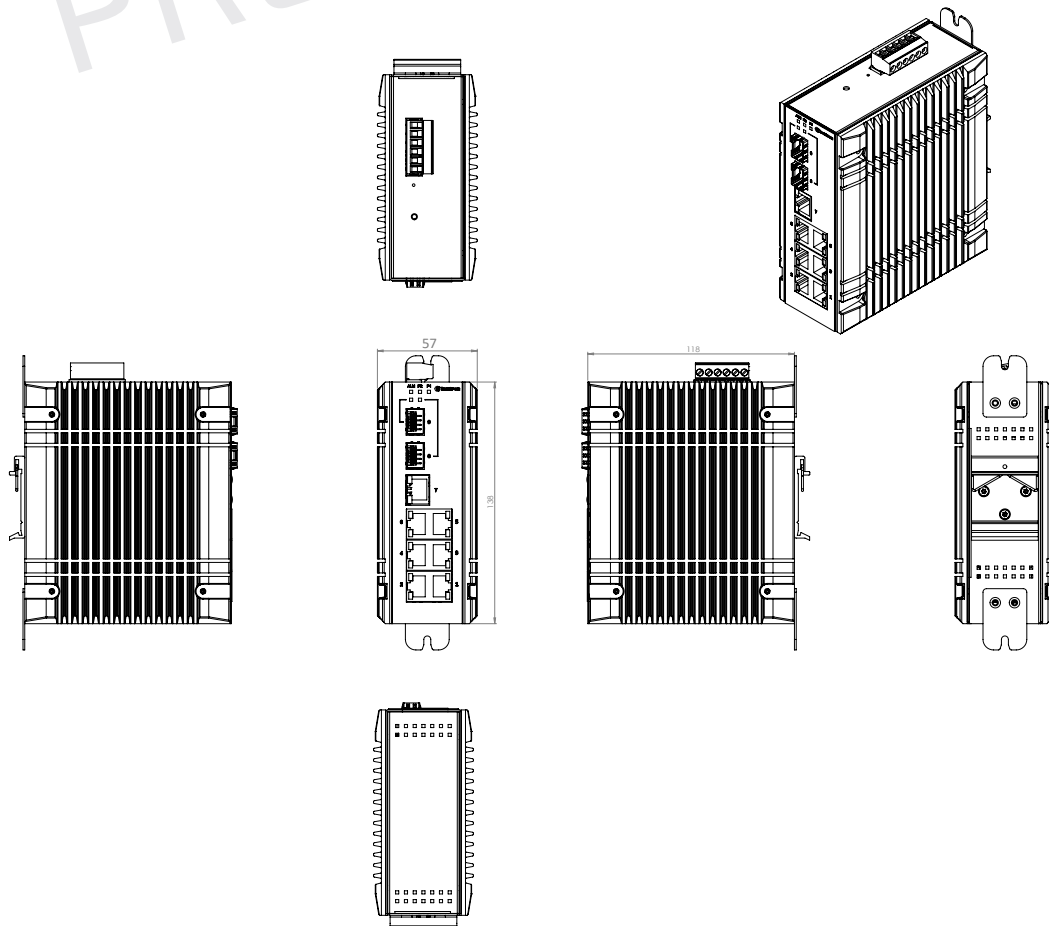
		KSWITCH D4 MF 6-PORT	KSWITCH D4 MF 9-PORT
<b>NETWORK</b>	OPERATING MODE MAC ADDRESSES PACKET BUFFER BACKPLANE / SWITCHING FABRIC	Store and forward, L2 wire-speed/non-blocking switching engine 16K 4 Mbits Up to 1.8 Gbps	
<b>RJ45 COPPER PORTS</b>	SPEED MDI/MDIX AUTO-CROSSOVER AUTO-NEGOTIATION/DUPLEX ETHERNET PORT PROTECTION	Up to 9 10/100 Mbps RJ45 ports Support straight or cross wired cables 10/100 Mbps speed auto-negotiation, full and half duplex 1.5 KV VRMS 1 minute (Hi-pot), 2KV surge immunity on RJ45 copper ports	
<b>FIBER PORTS</b>	PORT TYPES SUPPORTED FIBER PORT CONNECTOR OPTIMAL FIBER CABLE	Up to 2x 1000 Base SFP slot LC/RJ45 connector for fiber ports 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 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1D/w, IEEE 802.1Q/p, IEEE 802.1ab, IEEE 802.1X, IEEE 802.3ad LLDP, IPv4/IPv6, SNMP v1/v2c/, TFTP, ARP, RARP, Telnet, Syslog, flow control, back pressure, ICMP, UPD, TCP	
<b>NETWORK REDUNDANCY</b>	SPANNING TREE PROTOCOL PORT TRUNK / LACP	IEEE 802.1D/1w, STP/RSTP Static Trunk or LACP (Link Aggregation Control Protocol)	
<b>BRIDGE, VLANS, PROTOCOLS</b>	FLOW CONTROL MAX VLANS VLAN TYPES MULTICAST PROTOCOLS	IEEE 802.3x (full duplex) and back pressure (half duplex) 256 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>	LLDP PRIORITY NUMBER OF QUEUES PER PORT SCHEDULING SCHEMES	IEEE 802.1p QoS 8 SPQ, WRR	
<b>SECURITY</b>	PORT SECURITY STORM CONTROL	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters	
<b>MANAGEMENT</b>	USER MANAGEMENT INTERFACES MANAGEMENT SECURITY UPGRADE & RESTORE  DIAGNOSTIC  DHCP SNTP SYSTEM STATUS GREEN ETHERNET	Web-based management, SNMP V1, V2c, Trap, Telnet (5 sessions)  HTTPs, SSH, Access Management, Loop Protection TFTP for Configuration Import / Export TFTP 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>	POWER INPUT INPUT VOLTAGE RANGE REVERSE POWER PROTECTION POWER CONSUMPTION	Redundant power input, removable terminal block 12-58 V DC > 15, 000 W peak 12.5 W	
<b>INDICATORS</b>	STATUS INDICATION PORT INDICATION RELAY OUTPUT	Power input status Link & speed 1A, 24 V, Normal close	
<b>ENVIRONMENTAL &amp; COMPLIANCE</b>	OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY EMC SAFETY RoHS & WEEE MTBF	-10 °C - 60 °C (cold startup at -10 °C) -40 °C - 85 °C 5 - 95 % (non-condensing) EN 61000-6-3 Class B, EN 61000-6-4, EN 61000-6-2, EN 55035 UL/ IEC/ EN 62368-1 RoHS (Pb free), REACH and WEEE compliant > 220,000 hrs	
<b>MECHANICAL</b>	PROTECTION DIMENSION (HxWxD) WEIGHT INSTALLATION	IP30 138 x 118.2 x 57 mm 1.03 kg DIN-Rail mounting, wall mounting	138 x 118.2 x 57 mm 1.03 kg

▶ MECHANICAL DRAWING

6-port version



9-port version



## ▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION	100T(X)	100FX
<b>STANDARD CONFIGURATIONS</b>				
KSWITCH D4MF 4F-2FS	1067-5233	Industrial 6-port managed Ethernet switch, -10 °C to 60 °C of operating temperature, dual DC power input	4	2
KSWITCH D4MF 7F-2FS	1067-5229	Industrial 9-port managed Ethernet switch, -10 °C to 60 °C of operating temperature, dual DC power input	7	2
<b>ON REQUEST</b>				
KSWITCH D4MF 6F*		Industrial 6-port managed Ethernet switch -10 °C to 60 °C of operating temperature, dual DC power input	6	0
KSWITCH D4MF 9F*		Industrial 9-port managed Ethernet switch -10 °C to 60 °C of operating temperature, dual DC power input	9	0
KSWITCH D4MF 6F-3FS*		Industrial 9-port managed Ethernet switch -10 °C to 60 °C of operating temperature, dual DC power input	6	3
<b>PACKAGE CONTENTS</b>		KSwitch D4 MF Switch, terminal block, DIN-Rail mounting kit, safety instruction sheet		
<b>ACCESSORIES</b>				
<b>SFP MODULES</b>				
RK2U, RK4U		19" Rack Mount Kit 4U or 2U		
<b>230 V AC TO DC POWER ADAPTER</b>				
WK25		Wall Mount Kit		

\*) on project request, typically 10 – 12 weeks lead time

## ▶ GLOBAL HEADQUARTERS

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