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

kontron

S&T Group

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 availabl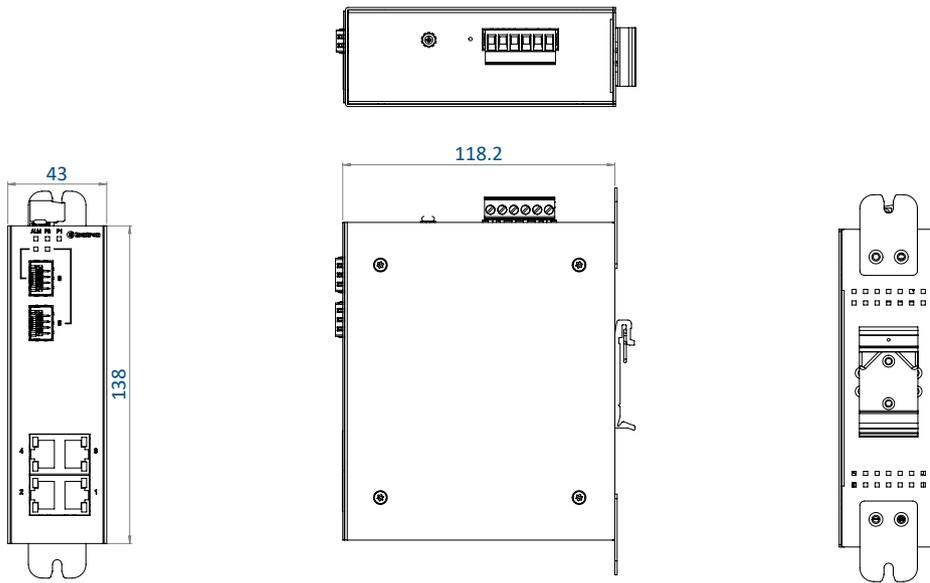e. The Kontron KSwitch D4 MF series can easily be integrated in factory production lines, embedded into a machine control system or applied for any simple network expansion. It is the perfect solution for general applications and edge-site installation.
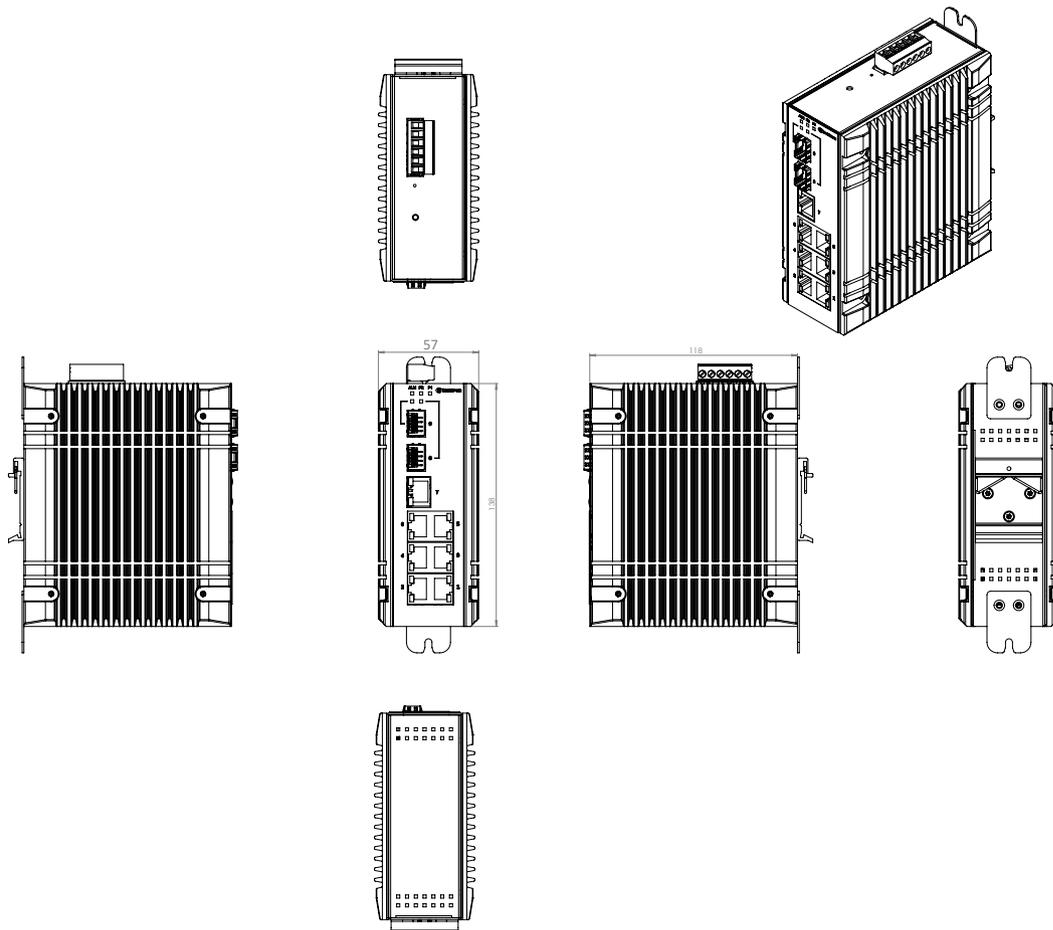
▶ TECHNICAL INFORMATION

		KSWITCH D4 MF 6-PORT	KSWITCH D4 MF 9-PORT
NETWORK	OPERATING MODE	Store and forward, L2 wire-speed/non-blocking switching engine	
	MAC ADDRESSES	16K	
	PACKET BUFFER	4 Mbits	
	BACKPLANE / SWITCHING FABRIC	Up to 1.8 Gbps	
RJ45 COPPER PORTS	SPEED	Up to 9 10/100 Mbps RJ45 ports	
	MDI/MDIX AUTO-CROSSOVER	Support straight or cross wired cables	
	AUTO-NEGOTIATION/DUPLEX	10/100 Mbps speed auto-negotiation, full and half duplex	
	ETHERNET PORT PROTECTION	1.5 KV VRMS 1 minute (Hi-pot), 2KV surge immunity on RJ45 copper ports	
FIBER PORTS	PORT TYPES SUPPORTED	Up to 2x 100 Base SFP slot	
	FIBER PORT CONNECTOR	LC/RJ45 connector for fiber ports	
	OPTIMAL FIBER CABLE	Typical 50 or 62.5/125 µm for multimode (mm)	
		Typical 8 or 9/125 µm for single mode (sm)	
PROTOCOL & STANDARDS		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	
NETWORK REDUNDANCY	SPANNING TREE PROTOCOL	IEEE 802.1D/1w, STP/RSTP	
	PORT TRUNK / LACP	Static Trunk or LACP (Link Aggregation Control Protocol)	
BRIDGE, VLANS, PROTOCOLS	FLOW CONTROL	IEEE 802.3x (full duplex) and back pressure (half duplex)	
	MAX VLANS	256	
	VLAN TYPES	Port-based VLAN, IEEE 802.1Q tag-based VLAN	
	MULTICAST PROTOCOLS	IGMP v1, v2, up to 255 multicast groups	
		IGMP snooping, querying	
	LLDP	IEEE 802.1ab LLDP	
TRAFFIC MANAGEMENT & QOS	PRIORITY	IEEE 802.1p QoS	
	NUMBER OF QUEUES PER PORT	8	
	SCHEDULING SCHEMES	SPQ, WRR	
SECURITY	PORT SECURITY	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control	
	STORM CONTROL	Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters	
MANAGEMENT	USER MANAGEMENT INTERFACES	Web-based management, SNMP V1, V2c, Trap, Telnet (5 sessions)	
	MANAGEMENT SECURITY	HTTPs, SSH, Access Management, Loop Protection	
	UPGRADE & RESTORE	TFTP for Configuration Import / Export	
		TFTP for firmware upgrade	
	DIAGNOSTIC	Syslog, Level Info / Warning / Error	
		Port Mirror, Per VLAN Mirroring, CPU Load Monitor, Traffic Counter	
		ICMP Ping	
	DHCP	Client Mode, Server Mode, Relay Mode, Snooping	
	SNTP	yes	
	SYSTEM STATUS	Device info/status; Ethernet port status	
	GREEN ETHERNET	Port power savings	
POWER	POWER INPUT	Redundant power input, removable terminal block	
	INPUT VOLTAGE RANGE	12-58 V DC	
	REVERSE POWER PROTECTION	> 15, 000 W peak	
	POWER CONSUMPTION	12.5 W	
INDICATORS	STATUS INDICATION	Power input status	
	PORT INDICATION	Link & speed	
	RELAY OUTPUT	1 A, 24 V, Normal close	
ENVIRONMENTAL & COMPLIANCE	OPERATING TEMPERATURE	-10 °C - 60 °C (cold startup at -10 °C)	
	STORAGE TEMPERATURE	-40 °C - 85 °C	
	HUMIDITY	5 - 95 % (non-condensing)	
	EMC	EN 61000-6-3 Class B, EN 61000-6-4, EN 61000-6-2, EN 55035	
	SAFETY	UL/ IEC/ EN 62368-1	
	RoHS & WEEE	RoHS (Pb free), REACH and WEEE compliant	
	MTBF	> 220,000 hrs	
MECHANICAL	PROTECTION	IP30	
	DIMENSION (HxWxD)	138 x 118.2 x 57 mm	138 x 118.2 x 57 mm
	WEIGHT	1.03 kg	1.03 kg
	INSTALLATION	DIN-Rail mounting, wall mounting	

▶ MECHANICAL DRAWING

6-port version

43

138

118.2

9-port version

57

118

▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION	100T(X)	100FX
STANDARD CONFIGURATIONS				
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
ON REQUEST				
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
PACKAGE CONTENTS		KSwitch D4 MF Switch, terminal block, DIN-Rail mounting kit, safety instruction sheet		
ACCESSORIES				
SFP MODULES				
RK2U, RK4U		19" Rack Mount Kit 4U or 2U		
230 V AC TO DC POWER ADAPTER				
WK25		Wall Mount Kit		

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

▶ GLOBAL HEADQUARTERS

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