KSWITCH D4 MM SERIES

PRELIMINARY

Kontron Fast Ethernet KSwitch D4 MM Series

- Up to 28-port DIN-Rail Industrial Ethernet Switch
- Fast & Gigabit Ethernet, web-managed Layer 2, copper & fiber ports
- Wide range, redundant DC power supply, alarm output
- Cost effective and modular
- Industrial grade, highly reliable and long-term available

POSSIBILITIES START HERE kontron S&T Group

KSWITCH D4 MM SWITCH SERIES

The Kontron KSwitch D4 MM series offers cost-effective web-managed Industrial Ethernet Switches with up to 28 Fast and Gigabit Ethernet ports providing easy to use plug-n-play connectivity. Copper and fiber optics ports are available. The Kontron KSwitch D4 MM 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.

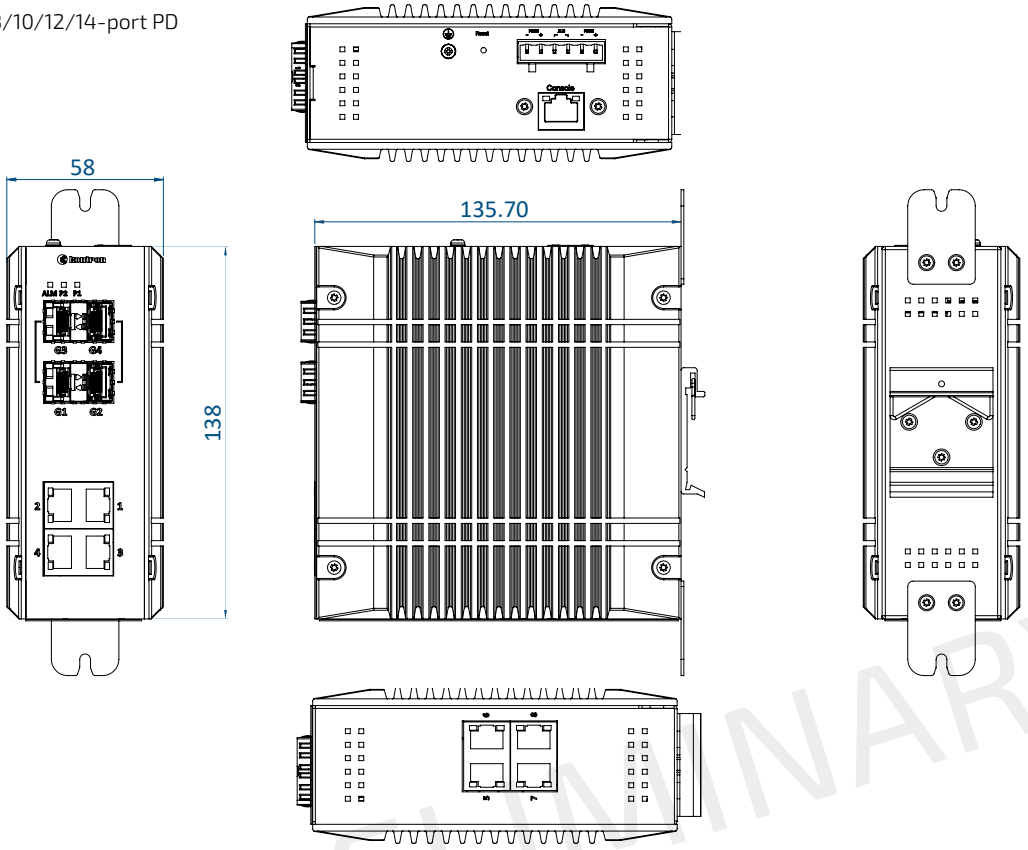
TECHNICAL INFORMATION

		KSWITCH D4 MM 8/10-PORT	KSWITCH D4 MM 12/14-PORT	KSWITCH D4 MM 18-PORT	KSWITCH D4 MM 28-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 12.8 Gbps			
RJ45 COPPER PORTS	SPEED	Up to 24x 10/100 Mbps RJ45 ports, up to 2x 10/100/1000 Mbps RJ45 ports, Up to 4x 1000Mb based SFP ports			
	MDI/MDIX AUTO-CROSSOVER	Support straight or cross wired cables			
	AUTO-NEGOTIATION/DUPLEX	10/100/1000 Mbps copper speed auto-negotiation, full and half duplex			
	ETHERNET PORT PROTECTION	1.5 KV V RMS 1 minute (Hipot), 2 KV surge immunity on RJ45 copper ports			
FIBER PORTS	PORT TYPES SUPPORTED	Up to 4x 1000 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 802.1 D/1w/1S, STP/RSTP/MSTP			
	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	Web-based management, SNMP V1, V2c, Trap, Telnet (5 sessions)			
	INTERFACES				
	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	yes			
	POWER CONSUMPTION	8 W	10 W	13 W	18 W
INDICATORS	STATUS INDICATION	Power input status			
	PORT INDICATION	Link & speed			
	RELAY OUTPUT	1 A, 24 V, Normal close			
ENVIRONMENTAL & COMPLIANCE	OPERATING TEMPERATURE	-40 °C - 75 °C (cold startup at -40 °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)	138x60x135.7 mm	138x60x135.7 mm	138x86.6x135.7 mm	138x118.3x135.7 mm
	WEIGHT	1.1 kg	1.13/1.14 kg	1.3 kg	1.55 kg
	INSTALLATION	DIN-Rail mounting, wall mounting			

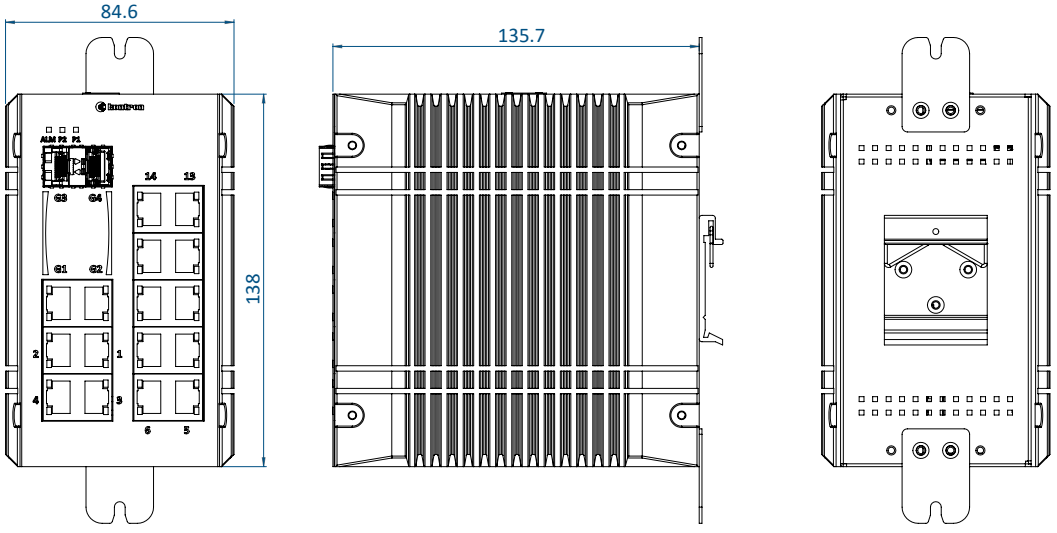
PRELIMINARY

MECHANICAL DRAWING

8/10/12/14-port PD



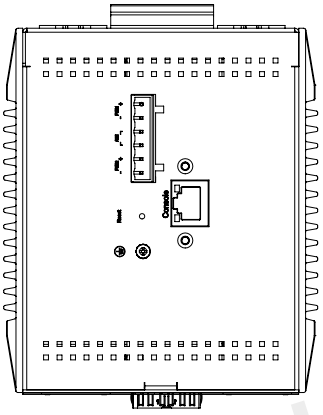
18-port PD

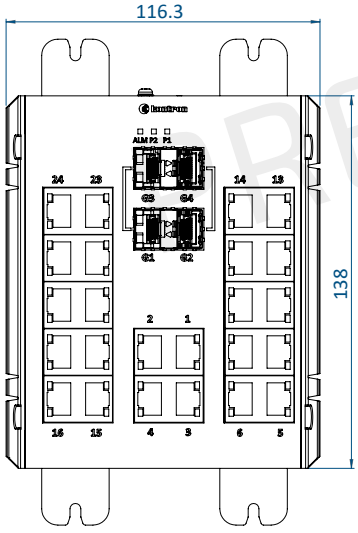


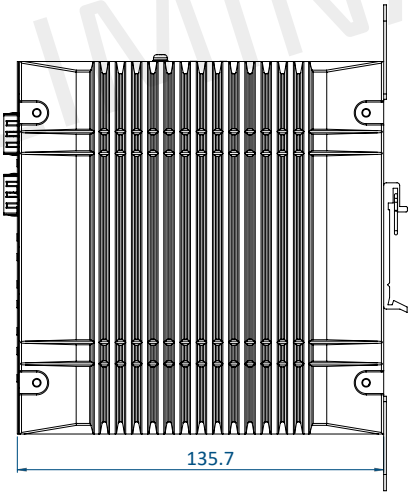
PRELIMINARY

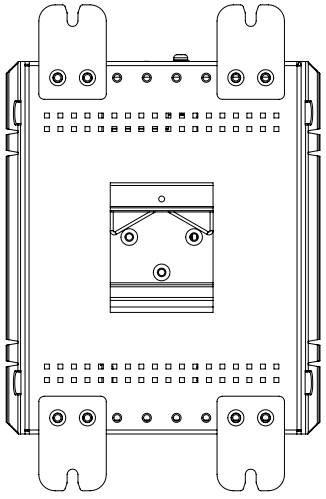
MECHANICAL DRAWING

28-port PD









PRELIMINARY

ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION	100T(X)	1000T(X)	1000FX SFP
STANDARD CONFIGURATIONS					
KSWITCH D4MM 4F-2G-2GS	1067-5228	Industrial 8-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	4	2	2
KSWITCH D4MM 8F-4GS	1067-5224	Industrial 12-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	8		4
KSWITCH D4MM 14F-2G-2GS	1067-5223	Industrial 18-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	14	2	2
KSWITCH D4MM 24F-4GS	1067-5221	Industrial 28-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	24	0	4
ON REQUEST					
KSWITCH D4MM 4F-4GS*		Industrial 8-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	4		4
KSWITCH D4MM 6F-2G-2GS*		Industrial 10-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	6	2	2
KSWITCH D4MM 6F-4GS*		Industrial 10-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	6		4
KSWITCH D4MM 8F-2G-2GS*	1067-5225	Industrial 12-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	8	2	2
KSWITCH D4MM 10F-2G-2GS*		Industrial 14-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	10	2	2
KSWITCH D4MM 10F-4GS*		Industrial 14-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	10	0	4
KSWITCH D4MM 14F-4GS*		Industrial 18-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	14	0	4
KSWITCH D4MM 24F-2G-2GS*		Industrial 28-port managed Ethernet switch -40 °C to 75 °C of operating temperature, dual DC power input	24	2	2
PACKAGE CONTENTS		KSwitch D4 MM 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

PRELIMINARY

GLOBAL HEADQUARTERS

Kontron Europe GmbH

Gutenbergstraße 2
85737 Ismaning, Germany
Tel.: + 49 821 4086-0
Fax: + 49 821 4086-111
info@kontron.com

www.kontron.com

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