Technical data sheet

Ethernet

Unmanaged 1 GB E-CO Switch, 16-Port, 10/100/1000 Base-T

Identification

Type	ET-SWGU16E
Part-No.	772017

Product version

Datasheet version	00

Description

	LAN 10/100/1000 BASE-T RJ45 auto-MDI/MDI-X, auto negotiation
	ESD 6 kV, 9K Jumbo Frames, Compact dimensions, Extended temperature range
	Auto crossing, Reverse polarity protection, Auto polarity

Communication

Standard	IEEE 802.3 Ethernet, IEEE 802.3u Fast Ethernet, IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Full-Duplex Flow Control
	IEEE 802.3az Energy Efficient Ethernet (EEE)
	IEEE 802.1p Class of Service
	IEC 60068-2-32 (free fall), IEC 60068-2-27 (shock), IEC 60068-2-6 (vibration)
LAN	10/100/1000 Base-T RJ45 Auto-MDI/MDI-X, Auto Negotiation
Cable length (segment)	Max. 100 m
Transfer rate	max. 1000 Mbit/s
Connection technology (data)	16 × RJ45
	23.8 Mpps @ 64 bytes

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Status display communication	System: Power 1 (P1): green Power 2 (P2): green Alarm, (Fault): red Per 10/100TX RJ45 Ports: 10/100 LNK/ACT: green 100/1000 LNK/ACT: orange (/amber)
	Store-and-Forward
Jumbo Frame	9K
	4.1 Mbit/s
Source Address Table	8K inputs, automatic source address learning and aging
FLOW Source	EEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Switch Fabric	10 Gbps (non-blocking)

Safety

ESD (Ethernet)	DC 6 kV
Surge (EFT for power)	DC 4 kV
Reverse voltage protection	Yes

Monitoring

	Relay, 1 NO contact - 1 A @ DC 24 V
Switching current	1 A @ DC 24 V
Switching voltage	AC 120 V / DC 28 V
Isolation voltage	DC 500 V

General

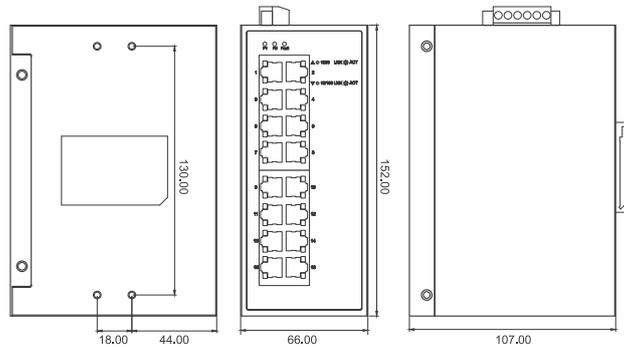|	
Rated voltage U_N	DC 12 – 48 V redundant, AC 24 V
Nominal voltage range	10 V – 52 V
Rated current	8.2 W, DC: max. 0.17 A, AC: max. 0.15 A
Protection class	IP30
Relative humidity (operation)	5 % – 90 % (non-condensing)
Relative humidity (storage)	0 % – 90 % (non-condensing)
Operation temperature range	-40 °C . . . +75 °C
Storage temperature range	-40 °C . . . +75 °C
Dimensions (w × h × d)	66.0 mm × 152.0 mm × 107.0 mm
Weight/unit	0.743 kg
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715) Wall mounting
Installation position	any

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Connection type	6-pole pluggable screw terminal for power supply and fault diagnosis single wire/fine wire $0.25 \text{ mm}^2 - 2.5 \text{ mm}^2$ AWG 20 – AWG 14 fine stranded wire with ferrule $0.25 \text{ mm}^2 - 1.5 \text{ mm}^2$ AWG 20 – AWG 16
MTBF	>100000 h
PU (units)	1

Certifications/Standards

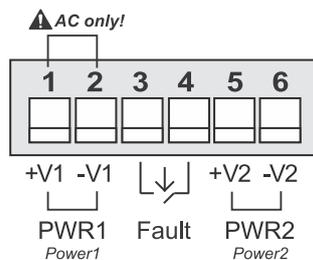|	
Certifications	CE
Standards	EN 55024 IEC 61000-4-2/3/4/5/6/8 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6

Dimensions

PIN assignment

Max. fault loading: 24V, 1A

⚠ *AC only!*

1	2	3	4	5	6
+V1	-V1	↓		+V2	-V2
PWR1		Fault		PWR2	
Power1				*Power2*	

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LED status

P1 P2 Fault
○   ○   ●

1000
○ LNK ○ ACT

100
○ LNK ○ ACT

Anzeige / *Display* / *Affichage*	Farbe / *Color* / *Couleur*	Typ / *Type* / *Type*	Beschreibung / *Discription* / *Discription*	
P1	grün	**Power 1**	grün an	PWR 1 ist angeschlossen
	green		*green on*	*PWR 1 is connected*
	vert		*allumée en vert*	*Le PWR 1 est connecté*
P2	grün	**Power 2**	grün an	PWR 2 ist angeschlossen
	green		*green on*	*PWR 2 is connected*
	vert		*allumée en vert*	*Le PWR 2 est connecté*
Fault	rot	**Fault**	rot an	Die AC- oder DC-Spannung hat einen Fehler.
	red		*red on*	*The AC or DC voltage has an error.*
	rouge		*allumée en rouge*	*La tension AC ou DC présente une erreur.*
1000 LINK/ACT	grün	**1000 LINK/ACT**	grün an	Der Port arbeitet mit 1000 Mbps
	green		*green on*	*The port works with 1000 Mbps*
	vert		*allumée en vert*	*Le port fonctionne avec 1000 Mbps*
		1000 LINK/ACT	grün blinkt	Der Port empfängt oder sendet Daten
			green flashes	*The port is actively sending or receiving datas*
			clignotements vert	*Le port reçoit ou envoie des données*
100 LINK/ACT	orange	**100 LINK/ACT**	orange an	Der Port arbeitet mit 10/100 Mbps
	orange		*orange on*	*The port works with 10/100 Mbps*
	orange		*allumée enorange*	*Le port fonctionne avec 10/100 Mbps*
		100 LINK/ACT	orange blinkt	Der Port empfängt oder sendet Daten
			orange flashes	*The port is actively sending or receiving datas*
			clignotements orange	*Le port reçoit ou envoie des données*

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