

Technical data sheet

Ethernet · Unmanaged E-CO Switch, 16-Port, 10/100/1000 MBit/s

QoS - Quality of Service, PROFINET Conformance Class A

16 RJ45 ports 1 GBit/s, compact design, energy management, ESD 6 kV

Redundant supply, extended temperature range, Jumbo Frames up to 9 kB



Identification

Type ET-SWGU16E
Part No. [772017](#)

Product version

Datasheet version 02

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
Throughput (packet per second)	23.8 Mpps @ 64 bytes
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)
Switch architecture	Store-and-Forward
Jumbo Frame	9K
Shared data buffer	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)

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SYSTEMATIC TECHNOLOGY

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Safety

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

Monitoring

Error output	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
Degree of protection	IP30
Relative humidity (operation)	5 % – 90 % (non-condensing)
Relative humidity (storage)	0 % – 90 % (non-condensing)
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715) Wall mounting
Installation position	Any
Connection type	6-pole pluggable screw terminal for power supply and fault diagnosis single wire/fine wire 0.25 mm ² – 2.5 mm ² AWG 20 – AWG 14 fine stranded wire with ferrule 0.25 mm ² – 1.5 mm ² AWG 20 – AWG 16
MTBF	>100000 h
Dimensions (w × h × d)	66.0 mm × 152.0 mm × 107.0 mm
Weight/unit	0.743 kg
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +75 °C
Storage temperature range	-40 °C ... +75 °C

Approvals/Standards

Approvals	CE FCC Part 15 Class A UKCA cULus (E332878)
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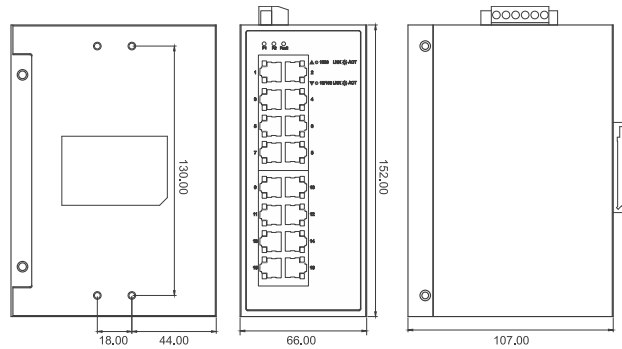
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Standards

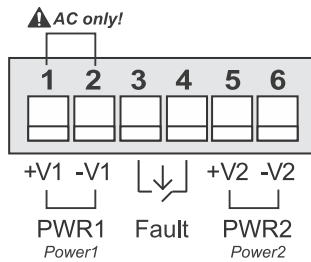
EN 55032
 EN 55035
 IEC 61000-4-2/3/4/5/6/8
 IEC 60068-2-27
 IEC 60068-2-32
 IEC 60068-2-6

Dimensions



PIN assignment

Max. fault loading: 24V, 1A



LED status

Anzeige Display Affichage	Farbe Color Couleur	Typ Type	Beschreibung Discription Description
P1 ○ ○ ●	grün green	Power 1	grün an green on allumée en vert
	vert		Le PWR 1 est connecté
	grün green	Power 2	grün an green on allumée en vert
	vert		Le PWR 2 est connecté
Fault ○ ○ ●	rot red	Fault	rot an red on allumée en rouge
	rouge		La tension AC ou DC présente une erreur.
	1000 ○ LNK ○ ACT	grün green	1000 LINK/ACT
vert			Le port fonctionne avec 1000 Mbps
100 ○ LNK ○ ACT			1000 LINK/ACT
			Der Port empfängt oder sendet Daten The port is actively sending or receiving datas Le port reçoit ou envoie des données
	100 LINK/ACT	orange orange orange	100 LINK/ACT
			Der Port arbeitet mit 10/100 Mbps The port works with 10/100 Mbps Le port fonctionne avec 10/100 Mbps
		100 LINK/ACT	orange blinkt orange flashes clignotements orange
			Der Port empfängt oder sendet Daten The port is actively sending or receiving datas Le port reçoit ou envoie des données