SIEMENS

Data sheet

6GK5216-0BA00-2AB2

Product description



Preset for PROFINET mode!

SCALANCE XB216 MANAGEABLE LAYER 2 IE-SWITCH 16X

10/100 MBITS/S RJ45 PORTS 1X KONSOLEN-PORT

DIAGNOSTICS-LED REDUNDANT POWER SUPPLY TEMP.
RANGE 0 DGR C UP TO DIN RAIL MOUNTING PROFINET IO
DEVICE ETHERNET/IP-CERTIFICATE DEFAULT PROFINET

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / integrated	
Number of electrical connections	
 for network components or terminal equipment 	16; RJ45
Interfaces / others	
Number of electrical connections	
 for operator console 	1
 for management purposes 	1
for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
• for operator console	RJ11
 for management purposes 	RJ45
• for power supply	6-pole terminal block
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC

Supply voltage	
• external	24 V
• external / minimum	19.2 V
• external / maximum	28.8 V
Product component / fusing at power supply input	Yes
Consumed current / maximum	0.28 A
Dermitted ambient conditions	

Permitted ambient conditions	
Ambient temperature	
 during operation 	0 60 °C
 during storage 	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weight	
Design	Box
Width	80 mm
Height	117 mm
Depth	109 mm
Net weight	0.4 kg
Material / of the enclosure	Plastic
Mounting type	
• 35 mm DIN rail mounting	Yes
wall mounting	No
• S7-300 rail mounting	No
 S7-1500 rail mounting 	No

Product properties, functions, components / general	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration	
Product function	
• CLI	Yes
 web-based management 	Yes
MIB support	Yes
• TRAPs via email	Yes
 Configuration with STEP 7 	Yes
• RMON	Yes
 Port mirroring 	Yes
• multiport mirroring	No

• with IRT / PROFINET IO switch • PROFINET IO diagnosis • switch-managed * switch-managed * switch-managed * relegran length / for Ethernet / maximum * 1522 byte Protocol / is supported • Telinet • Telinet • Telinet • HTTP * Yes • HTTP * Yes • HTTP • HTTPS • SWA • SOOTP • DOOP • DOOP • LLDP • EtherNet/IP • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v3 • (SMP (snooping/querier) • IdM0 - device-specific information • IdM0 - device-specific information • IdM1 - higher-level designation/location designation • Product function / Diagnosis Product function • Port diagnostics • Statistics packet type • Error statistics • Sysl.og • loopback diagnostics • Yes • Troduct function / VAN Product function • VLAN - port based • VLAN - port based • VLAN - protocol-based • VLAN - Product function / DIGP Product functions / DIGP Product functions / DIGP Product functions / DIAGNOST Product function • VLAN - protocol-based • VLAN - protocol-based • VLAN - protocol-based • VLAN - Product function / No Product functions / DHOP	• CoS	Yes
Telegram length / for Ethernet / maximum Telegram length / for ethernet / for ethernet / maximum Telegram length / for ethernet / for ether	with IRT / PROFINET IO switch	No
Telegram length / for Ethernet / maximum Protocol / is supported • Telnet • Telnet • Telnet • Telnet • HTTP • Yes • HTTP • HTTP • Yes • FTP • FTP • Pes • BOOTP • DOCP • LLDP • LELDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • Yes • SysLog • loopback diagnostics • Yes • SysLog • Ves • SysLog • Ves •	PROFINET IO diagnosis	Yes
Protocol / is supported • Teinet • HTTP • HTTP • HTTPS • HTTPS • TFTP • Yes • FTP • FTP • Yes • BOOTP • No • DCP • Yes • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation • Pord diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • Syst.og • loopback diagnostics Product functions / Ves • Irror statistics • Yes • Syst.og • Ves • Statistics packet type • Froduct functions / Ves • Froduct functions / Ves • Froduct functions / Ves • Ves	switch-managed	Yes
• Telnet • HTTP • HTTPS • HTTPS • HTTPS • Yes • TFTP • Yes • FTP • BOOTP • DCP • LLDP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M0 - device-specific information • Yes • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Ioopback diagnostics Product functions / VLAN Product functions Product functions / VLAN Product function • VLAN - prot based • VLAN - prot based • VLAN - prot based • VLAN - Probased • VLAN - Product function • Product function • Product function • Ves • Statistics No • VLAN - Probased • VLAN - Probased • VLAN - Probased • VLAN - Product function • No • Product functions / DHCP		1522 byte
• HTTP • HTTPS • HTTPS • HTTP • HTTP • Yes • FTP • Yes • BOOTP • DOP • DOP • LLDP • EtherNet/IP • SMMP v1 • SNMP v2 • SMMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location • I&M1 - higher-level designation/location Product functions / Diagnosis Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • SysLog • Icopback diagnostics Product functions / Ves • SysLog • Ves • SysLog • Ves • Ves • SysLog • Ves • Ves • SysLog • Ves	Protocol / is supported	
• HTTPS • TFTP • TFTP • FTP • FTP • BOOTP • DCP • DCP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (anoping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics • Ves • SysLog • loopback diagnostics • Ves • Ves • SysLog • Ves • Ves • SysLog • Ves • Ves • Ves • SysLog • Ves • Ves • Ves • SysLog • Ves • VAN - protocol-based • VLAN - Prodocol-based • VLAN - IP-based • VLAN - IP-based • VLAN opnamic	• Telnet	Yes
• TETTP • FTP • FTP • FTP • BOOTP • DCP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • Port diagnostics • Statistics packet type • Error statistics • SysLog • loopback diagnostics • Yes • Ioopback diagnostics • Yes • Ioopback diagnostics • Yes • Ves	• HTTP	Yes
FTP Yes BOOTP No DCP Yes LLDP Yes LLDP Yes EtherNet/IP Yes SNMP v1 Yes SNMP v2 Yes SNMP v3 Yes IGMP (snooping/querier) Yes Identification & maintenance function I&M - device-specific information Yes Identification & Tolagnosis Product functions / Diagnosis Product functions / Diagnosis Product functions / Port diagnostics Yes Statistics Packet Size Yes Statistics Packet Size Yes Statistics packet type Yes Error statistics Yes SysLog Yes Ioopback diagnostics Yes Ioopback diagnostics Yes Vas Vas Yes Vas	• HTTPS	Yes
BOOTP	• TFTP	Yes
DCP	• FTP	Yes
• LLDP • EtherNet/IP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product functions • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics Product functions / VLAN Product function • VLAN - port based • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP Product functions / DHCP	• BOOTP	No
EtherNet/IP SNMP v1 Yes SNMP v2 Yes SNMP v3 IGMP (snooping/querier) Identification & maintenance function	• DCP	Yes
	• LLDP	Yes
SNMP v2 SNMP v3 SNMP v4 SNMP v3 SNMP v4 SNMP	• EtherNet/IP	Yes
SNMP v3 IGMP (snooping/querier) Identification & maintenance function Is&M0 - device-specific information Is&M0 - device-specific information Is&M1 - higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics Packet Size Statistics packet type For statistics SysLog Iopoback diagnostics Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic No Product functions / DHCP	• SNMP v1	Yes
Identification & maintenance function Identification & maintenance function IskM0 - device-specific information IskM1 - higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type For our output ou	• SNMP v2	Yes
Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes • SysLog Yes • loopback diagnostics Yes Product functions / VLAN Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN dynamic No Product functions / DHCP Product functions / DHCP Product functions / DHCP Product functions / DHCP	• SNMP v3	Yes
I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Yes Statistics Packet Size Yes Statistics packet type SysLog Ioopback diagnostics Product functions / VLAN Product functions Product functions VLAN - protocol-based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP	• IGMP (snooping/querier)	Yes
I&M1 – higher-level designation/location designation Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firror statistics Syes SysLog SysLog SysLog Syes Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP	Identification & maintenance function	
Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Identify loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions	• I&M0 - device-specific information	Yes
Product functions / Diagnosis Product function Port diagnostics Statistics Packet Size Statistics packet type Firor statistics Syes SysLog I loopback diagnostics Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / No Product functions / No Product functions / DHCP Product functions / DHCP Product function	• I&M1 – higher-level designation/location	Yes
Product function Prot diagnostics Statistics Packet Size Statistics packet type First statistics SysLog I loopback diagnostics Product functions / VLAN Product function VLAN - prot based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	designation	
Port diagnostics Statistics Packet Size Statistics packet type Firor statistics SysLog I loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	Product functions / Diagnosis	
Statistics Packet Size Statistics packet type Firor statistics SysLog I loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	Product function	
Statistics packet type Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions	 Port diagnostics 	Yes
Error statistics SysLog loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions	Statistics Packet Size	Yes
● SysLog ● loopback diagnostics Product functions / VLAN Product function ● VLAN - port based ● VLAN - protocol-based ● VLAN - IP-based ● VLAN dynamic Product functions / DHCP Product functions	 Statistics packet type 	Yes
Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product function Yes No No Product functions / DHCP	• Error statistics	Yes
Product functions / VLAN Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP Product function	SysLog	Yes
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP Product function	 loopback diagnostics 	Yes
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP Product function	Product functions / VLAN	
VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product function No		
VLAN - IP-based VLAN dynamic Product functions / DHCP Product function Product function	VLAN - port based	Yes
VLAN dynamic Product functions / DHCP Product function	 VLAN - protocol-based 	No
Product functions / DHCP Product function	VLAN - IP-based	No
Product function	VLAN dynamic	No
DHCP client Yes	Product function	
	DHCP client	Yes

Product functions / Redundancy	
Product function	
Ring redundancy	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby redundancy 	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
 media redundancy protocol (MRP) with redundancy manager 	Yes
 redundancy procedure STP 	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	No
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	No
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Product functions / Security	
Product function	
• IEEE 802.1x (radius)	Yes
 Broadcast/Multicast/Unicast Limiter 	Yes
broadcast blocking	Yes
Protocol / is supported	
• SSH	Yes
Product functions / Time	
Product function	
 SICLOCK support 	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
Standards, specifications, approvals Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X

• for hazardous zone / from CSA and UL

• for emitted interference

• for interference immunity

ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 /

GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T8

EN 61000-6-4 (Class A)

EN 61000-6-2

Standards, specifications, approvals / CE

Certificate of suitability / CE marking

Yes

Standards, specifications, approvals / miscellaneous

Certificate of suitability

• C-Tick

Railway application in accordance with EN

50155

Railway application in accordance with EN

50124-1

KC approval

EN 61000-6-2, EN 61000-6-4

Yes

No

No

Yes

Accessories

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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