# **SIEMENS**

## **Data sheet**

# 6GK5213-3BF00-2AB2

#### product description



### Preset for PROFINET mode!

SCALANCE XB213-3LD managed layer 2 IE switch 13x 10/100 Mbps RJ45 ports, 3x SM FO SC port 1x console port, diagnostics LED, redundant power supply; IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; mounting onto standard rail; default PROFINET

product type designation	SCALANCE XB213-3LD
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	13; RJ45
number of 100 Mbit/s SC ports	
<ul><li>for single mode (LD)</li></ul>	3
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for management purposes</li> </ul>	1
for power supply	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for management purposes</li> </ul>	RJ45
<ul><li>for power supply</li></ul>	6-pole terminal block
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	9.6 W
<ul><li>supply voltage / 1 / rated value</li></ul>	19.2 28.8 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.4 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	6-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	0 60 °C
<ul> <li>during storage</li> </ul>	-40 +70 °C
during transport	-40 +70 °C
relative humidity	
at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20

Box	design, dimensions and weights	
Meight		Roy
March   Marc	<u>`</u>	
Depth		
material / of the enclosure		
material / of the enclosure fastening method		
fastening method   • 36 mm top hat DIN rail mounting   No   vali mounting   No   \$7.300 rail mounting   All reconfiguration time of \$4.03.5		-
* 35 mm top hat DIN rall mounting     * wall mounting     * sol mounting     * S7-1500 rail mounting     * S7-1500 rail mounting     * S7-1500 rail mounting     * No     * S7-1500 rail mounting     * S0     * cascading in the case of a redundant ring / at reconfiguration rine of -(-0, -0) second reconfiguration rine of -(-0, -0) second rine product functions / management, configuration, engineering     * Product function S7 management, configuration, engineering     * Product function S7 management     * Yes     * Mills support     * * Yes     * Mills support     * * * * Yes     * Mills support     * * * * * Yes     * * * * * * * * * * * * * * * * *	material / of the enclosure	Plastic
• x87-300 rail mounting     • S7-300 rail mounting     • S7-500 rail mounting     • S7-500 rail mounting     No     product features, product functions, product components?   general	fastening method	
S7-300 rail mounting S7-1500 rail mounting Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0,-0.3 s cascading in cases of star topology product functions / management, configuration, engineering Product function  CLI  Yes  CLI  Web-based management  Ves  **Mill support  **TRAPs via email  **Yes  **Configuration with STEP 7  **RRANN  **Port mirroring  **Port mirroring  **Port mirroring  **Cos  **With IRT / PROFINET IO switch  **PROFINET conformity class  **PROFINET conformity class  **PROFINET conformity class  **PROFINET conformity class  **PROFINET on framing of the product function / switch-managed  **Lelegram length / for Ethernet / maximum  protocol / is supported  **TETP  **FTP  **FTP  **BOOTP  **DROP  **EINEP  **ETP  **BOOTP  **BOOTP  **BOOTP  **BOMMP v2  **SNMMP v3  **Cos  **SNMMP v3  **SNMMP v3  **SNMMP v3  **SNMMP v3  **SNMMP v3  **SNMMP v3  **SNMMP	<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
No   Product fostures, product functions, product components / general	<ul> <li>wall mounting</li> </ul>	No
product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of <1-0.31-s  cascading in cases of star topology  product functions / management, configuration, engineering  product function  • CLI  • web-based management • Yes • Milb support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • cos • multiport mirroring • multiport mirroring • cos • with IRT / PROFINET IO switch • PROFINET IO diagnosis • product function / switch-managed  telegram length / for Ethernet / maximum  protocol / is supported  • HTTP • HTTP • HTTP • HTTP • FTP • BOOTP • DOLP • Ethernet/IP • SMMP v3 • SMMP v4 • SMMP v4 • SMMP v3 • SMMP v4 • SMMP v5 • SMMP v6 • SMMP v6 • SMMP v6 • SMMP v6 • SMMP v7 • SMMP v7 • SMMP v8 • SMMP v9 • SMMP v6 • SMMP v6 • SMMP v6 • SMMP v7 • SMMP v7 • SMMP v8 • SMMP v9 • SMMP v8 • SMMP v9 •	<ul> <li>S7-300 rail mounting</li> </ul>	No
cascading in the case of a redundant ring / at reconfiguration time of <1-0.31-5 cascading in cases of star topology any (depending only on signal propagation time)  product functions / management, configuration, engineering  product function  CLI  • Ves  • Web-based management  • CII  • Web-based management  • Ves  • Configuration with STEP 7  • Ves  • Web-based management  • Ves  • SMMP v1  • Ves  • SMMP v1  • Ves  • SMMP v2  • Ves  • SMMP v3  • Ves  • SMMP v3  • Ves  • SMMP v4  • SMMP v5  • SMMP v5  • SMMP v5  • SMMP v6  • Web-based management  • Ves  • SMMP v6  • Web-based v6 v6-sepecific information  • IAM - device-sepecific information  • IAM	<ul> <li>S7-1500 rail mounting</li> </ul>	No
reconfiguration time of <-0.3/-s   cascading in cases of star topology   product functions / management, configuration, engineering   product functions / management   Yes	product features, product functions, product components	/ general
product functions / management, configuration, engineering product function  CLI  web-based management  Yes  Mills support  TRAPs via email  configuration with STEP 7  RMON  port mirroring  Yes  multiport mirroring  No  Cos  with IRT / PROFINET IO switch  PROFINET IO diagnosis  PROFINET conformity class  product function / switch-managed  telegram length / for Ethernet / maximum  protocol / is supported  Telnet  TITP  TELNET  TELNET	cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
product function  • CLI  • CLI  • Web-based management  • MIB support  • TRAPs via email  • configuration with STEP 7  • RMON  • port mirroring  • multiport mirroring  • COS  • with IRT / PROFINET IO switch  • PROFINET conformity class  • PROFINET conformity class  • PROFINET conformity class  • PROFINET on formity class  • PROFINET with managed  • telegram length / for Ethemet / maximum  • Telet  • Telet  • Telet  • Telet  • Telet  • TEIP  • TETP  • TETP  • TETP  • BOOTP  • BOOTP  • DCP  • LLDP  • LEHENBEUTP  • ETHENBEUTP  • SNMP v1  • SNMP v1  • SNMP v2  • SNMP v2  • SNMP v3  • IGMP (snooping/querier)  • Identification & maintenance function  • I&M1 – device-specific information  • I&M1 – higher level designation/location designation  product functions / diagnostics  • statistics Packet Size  • statistics  • statistics Packet Size  • statistics  • SysLog  • loopback diagnostics  • Yes	cascading in cases of star topology	any (depending only on signal propagation time)
product function  • CLI  • CLI  • Web-based management  • MIB support  • TRAPs via email  • configuration with STEP 7  • RMON  • port mirroring  • multiport mirroring  • COS  • with IRT / PROFINET IO switch  • PROFINET conformity class  • PROFINET conformity class  • PROFINET conformity class  • PROFINET on formity class  • PROFINET with managed  • telegram length / for Ethemet / maximum  • Telet  • Telet  • Telet  • Telet  • Telet  • TEIP  • TETP  • TETP  • TETP  • BOOTP  • BOOTP  • DCP  • LLDP  • LEHENBEUTP  • ETHENBEUTP  • SNMP v1  • SNMP v1  • SNMP v2  • SNMP v2  • SNMP v3  • IGMP (snooping/querier)  • Identification & maintenance function  • I&M1 – device-specific information  • I&M1 – higher level designation/location designation  product functions / diagnostics  • statistics Packet Size  • statistics  • statistics Packet Size  • statistics  • SysLog  • loopback diagnostics  • Yes		
CLI     web-based management     Yes     MIB support     TRAPs via email     configuration with STEP 7     Yes     RMON     port mirroring     Port mirroring     No     Port mirroring     No     PROFINET IO dispossis     PROFINET IO dispossis     PROFINET Gordon Mitch-managed     Yes     telegram length / for Ethernet / maximum     Telnet     HTTP     Telnet     HTTP     Yes     TFIP     Yes     TFIP     Yes     SDOTP     FTP     SDOTP     LLDP     SDMP V1     SNMP V1     SNMP V1     SNMP V2     SNMP V2     SNMP V3     IGMP (snooping/querier)     IdMP (snooping/querier)     IdMP (snooping/querier)     IdMP (snooping/querier)     IdMP (snooping/augensics)     Product functions / diagnostics     Product functions / diagnostics     Product functions / diagnostics     Yes     statistics packet type     error statistics     SysLog     SysLog     SysLog     Soluble Assertions Asserting the sub-distribution of the sub-distributio		
web-based management     MIB support     TRAPs via email     configuration with STEP 7     RMON     port mirroring     ves     multiport mirroring     No     CoS     with IRT / PROFINET IO switch     PROFINET conformity class     PROFINET conformity class     PROFINET of supported     telegram length / for Ethernet / maximum     product function / switch-managed     *Telnet     *Telnet     *TETP     *HTTP     *HTTP     *HTTP     *HTPS     *TETP     *BOOTP     *DCP     *LLDP     *EtherNet/IP     *SNMP v2     *SNMP v3     *IGMP (snooping/querier)  identification & maintenance function     *I&M0 - device-specific information     *I&M0 - device-specific information     *Port diagnostics     *Telnet statistics packet type     *error statistics     *statistics packet type     *error statistics     *SysLog     *SysLog     *SysLog     *loopback diagnostics     Yes     *les     *Tes     *Yes     *SysLog     *Ves     *Yes     *SysLog     *Ves     *SysLog     *Ves     *SysLog     *Ves     *SysLog     *Sys	•	Yes
<ul> <li>● port mirroring</li> <li>● multiport mirroring</li> <li>● CoS</li> <li>● With IRT / PROFINET IO switch</li> <li>● PROFINET Conformity class</li> <li>● PROFINET Conformity class</li> <li>B product function / switch-managed</li> <li>← telegram length / for Ethernet / maximum</li> <li>← Telnet</li> <li>← Telnet</li> <li>← Telnet</li> <li>← Telnet</li> <li>← HTTP</li> <li>← HTTP</li> <li>← HTTP</li> <li>← FTP</li> <li>← BOOTP</li> <li>← BOOTP</li> <li>← BOOTP</li> <li>← LLDP</li> <li>← EtherNet/IP</li> <li>← SNMP v1</li> <li>← SNMP v2</li> <li>← SNMP v2</li> <li>← SNMP v3</li> <li>← IGMP (snooping/querier)</li> <li>← IdM1 - Injeher level designation/location designation</li> <li>← port diagnostics</li> <li>← statistics Packet Size</li> <li>← sysLog</li> <li>← loopback diagnostics</li> <li>← Yes</li> <li>← SysLog</li> <li>← loopback diagnostics</li> <li>← Yes</li> <li>← SysLog</li> <li>← loopback diagnostics</li> <li>← Yes</li> <li>← Good Post</li> <li>← SysLog</li> <li>← Loopback diagnostics</li> <li>← Yes</li> <li>← SysLog</li> <li>← Loopback diagnostics</li> <li>← Yes</li> </ul>		
• CoS • with IRT / PROFINET IO switch • PROFINET IO diagnosis PROFINET conformity class  product function / switch-managed  telegram length / for Ethernet / maximum protocol / is supported • Telnet • HTTP • Telnet • HTTP • HTTP • Yes • HTTP • FTP • BOOTP • BOOTP • BOOTP • LLDP • EtherNet/IP • SNMP ∨1 • SNMP ∨2 • SNMP ∨2 • SNMP ∨3 • IGMP (snooping/querier)  identification & maintenance function • 18 MM - device-specific information • 18 MM - device-specific information • 18 MM - diagnostics  product function • port diagnostics  product function • error statistics • Statistics Packet Size • statistics Packet Size • statistics • SySLog • loopback diagnostics		
with IRT / PROFINET IO switch		
● PROFINET IO diagnosis         Yes           PROFINET conformity class         B           product function / switch-managed         Yes           telegram length / for Ethernet / maximum         1522 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • FTP         Yes           • BOOTP         No           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SMMP v1         Yes           • SMMP v2         Yes           • SMMP v3         Yes           • I&MO - device-specific information         Yes           • I&MO - device-specific information         Yes           • I&MO - diagnostics         Yes           • statistics packet tyce         Yes           • statistics packet type         Yes           • ror statistics         Yes           • loopback diagnostics         Yes		
PROFINET conformity class   B		
product function / switch-managed  telegram length / for Ethernet / maximum  Telnet  Telnet  HTTP  HTTP  HTTP  HTTPS  FFP  BOOTP  BOOTP  LLDP  EtherNet/IP  SNMP v1  SNMP v2  SNMP v3  IGMP (snooping/querier)  identification & maintenance function  I&MO - device-specific information  I&MO - device-specific information  Forduct functions / diagnostics  rorduct functions  Porduct functions  First  Yes  Statistics Packet Size  Forduct function  First  Yes  Statistics packet type  Foreign Syston  Foreign Swiss  Forei		- 1
telegram length / for Ethernet / maximum		
Protocol / is supported	· · · · · · · · · · · · · · · · · · ·	Yes
• Telnet • HTTP • HTTPS • HTTPS • HTTPS • TFTP • FTP • FTP • FTP • BOOTP • BOOTP • 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 function • port diagnostics  product function • port diagnostics  product function • port diagnostics  product specific information • port diagnostics  product function • port diagnostics  product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • loopback diagnostics  Yes • loopback diagnostics  Yes	telegram length / for Ethernet / maximum	1522 byte
<ul> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>Yes</li> <li>FTP</li> <li>BOOTP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M0 - device-specific information</li> <li>Yes</li> <li>I&amp;M1 - higher level designation/location designation</li> <li>product functions / diagnostics</li> <li>product function</li> <li>port diagnostics</li> <li>yes</li> <li>statistics Packet Size</li> <li>statistics packet type</li> <li>error statistics</li> <li>SysLog</li> <li>loopback diagnostics</li> <li>Yes</li> </ul>	protocol / is supported	
HTTPS     TFTP     Yes     FTP     Yes     BOOTP     No     DCP     Yes     LLDP     Yes     EtherNet/IP     SNMP v1     SNMP v2     SNMP v2     SNMP v3     IGMP (snooping/querier)     identification & maintenance function	• Telnet	Yes
■ TFTP     ■ FTP     ■ FTP     ■ BOOTP     ■ No     ■ DCP     ■ Yes     ■ LLDP     ■ Yes     ■ 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 / diagnostics  product functions     ● port diagnostics     ● statistics Packet Size     ● statistics packet type     ● error statistics     ● SysLog     ● loopback diagnostics     Yes     ● Instance of the provided Head of the pr	• HTTP	Yes
FTP         BOOTP         No         DCP         Yes         LLDP         Yes         EtherNet/IP         Yes         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 / diagnostics  product functions	• HTTPS	Yes
■ BOOTP     ■ 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     ▼ product functions / diagnostics  product function     ● port diagnostics     ■ statistics Packet Size     ● statistics packet type     ● error statistics     ■ SysLog     ● loopback diagnostics     Yes     ■ Yes     ■ loopback diagnostics     Yes     ■ SysLog     ■ Image: Application of the provided manual provided manu	• TFTP	Yes
■ BOOTP     ■ 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     ▼ product functions / diagnostics  product function     ● port diagnostics     ■ statistics Packet Size     ● statistics packet type     ● error statistics     ■ SysLog     ● loopback diagnostics     Yes     ■ Yes     ■ loopback diagnostics     Yes     ■ SysLog     ■ Image: Application of the provided manual provided manu	• FTP	Yes
		No
LLDP EtherNet/IP EtherNet/IP SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics Statistics Packet Size Statistics packet type error statistics SysLog loopback diagnostics Yes Item Ves Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y		
EtherNet/IP SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics  product function  port diagnostics Statistics Packet Size Statistics packet type Ferror statistics SysLog Ioopback diagnostics Yes		
SNMP v1 SNMP v2 SNMP v3 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics  yes statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics  Yes  Yes  SysLog loopback diagnostics  Yes  Yes  Jes  Yes  Jes  Yes  Jes  Je		
SNMP v2 SNMP v3 IGMP (snooping/querier) Ves identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  prof diagnostics Statistics Packet Size Statistics packet type Formula of the packet of		
SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics  statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics  Yes  Yes  SysLog loopback diagnostics  Yes  Yes  Image: April 1		
IGMP (snooping/querier)  identification & maintenance function  I&M0 - device-specific information  I&M1 - higher level designation/location designation  product functions / diagnostics  product function  oport diagnostics  statistics Packet Size  statistics packet type  oerror statistics  SysLog  loopback diagnostics  Yes  Yes  loopback diagnostics  Yes  Yes  loopback diagnostics  Yes		Ves
identification & maintenance function  • I&M0 - device-specific information • I&M1 - higher level designation/location designation  product functions / diagnostics  product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • loopback diagnostics  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	• SNMP v2	
I&M0 - device-specific information     I&M1 - higher level designation/location designation  product functions / diagnostics  product function     port diagnostics     yes     statistics Packet Size     statistics packet type     error statistics     SysLog     loopback diagnostics     Yes      loopback diagnostics     Yes	<ul><li>SNMP v2</li><li>SNMP v3</li></ul>	Yes
I&M1 – higher level designation/location designation  product functions / diagnostics  product function	<ul><li>SNMP v2</li><li>SNMP v3</li><li>IGMP (snooping/querier)</li></ul>	Yes
product functions / diagnostics  product function  • port diagnostics  • statistics Packet Size  • statistics packet type  • error statistics  • SysLog  • loopback diagnostics  Yes  Yes  Yes  Yes  Yes  Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function	Yes Yes
product function  • port diagnostics  • statistics Packet Size  • statistics packet type  • error statistics  • SysLog  • loopback diagnostics  Yes  Yes  Yes  Yes  Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information	Yes Yes
<ul> <li>port diagnostics</li> <li>statistics Packet Size</li> <li>statistics packet type</li> <li>error statistics</li> <li>SysLog</li> <li>loopback diagnostics</li> </ul> Yes Yes Yes Yes Yes Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation	Yes Yes
<ul> <li>statistics Packet Size</li> <li>statistics packet type</li> <li>error statistics</li> <li>SysLog</li> <li>loopback diagnostics</li> </ul> Yes <ul> <li>yes</li> </ul>	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics	Yes Yes
<ul> <li>statistics packet type</li> <li>error statistics</li> <li>SysLog</li> <li>loopback diagnostics</li> <li>Yes</li> <li>Yes</li> </ul>	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics	Yes Yes
<ul> <li>error statistics</li> <li>SysLog</li> <li>loopback diagnostics</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function	Yes Yes Yes Yes Yes
<ul><li>SysLog</li><li>loopback diagnostics</li><li>Yes</li></ul>	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics  product function port diagnostics	Yes Yes Yes Yes Yes
• loopback diagnostics Yes	SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics statistics Packet Size	Yes Yes Yes Yes Yes Yes
• loopback diagnostics Yes	SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function product function statistics Packet Size statistics packet type	Yes Yes Yes Yes Yes Yes Yes Yes
	SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  product	Yes
TOTAL CONTROL OF THE	SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  product functions / diagnostics  product function  port diagnostics statistics Packet Size statistics packet type error statistics SysLog	Yes

product function	V
VLAN - port based	Yes
VLAN - protocol-based	No
VLAN - IP-based	No
VLAN dynamic	No
product functions / DHCP	
product function  • DHCP client	Voc
product functions / redundancy	Yes
product function	Yes
<ul><li>ring redundancy</li><li>High Speed Redundancy Protocol (HRP)</li></ul>	Yes
high speed redundancy protocol (HRP) with	Yes
redundancy manager	165
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul><li>redundancy procedure RSTP+</li></ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	No
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
passive listening	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>broadcast/multicast/unicast limiter</li> </ul>	Yes
broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	V.
• NTP	Yes
• SNTP	Yes
standards, specifications, approvals	
standard	EMOCAA: Class A. Disisson C. Consur A. D. C. D./TA. Ol. A. Zons C. CD.
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
for emitted interference     for interference immunity	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environn	nents
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	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, T11
certificate of suitability	

CCC / for hazardous zone according to GB standard	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>railway application in accordance with EN 50124-1</li> </ul>	No
further information / internet-Links	
Internet-Link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
<ul><li>to website: Industry Mall</li></ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul><li>to website: Image database</li></ul>	http://automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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