SIEMENS

Data sheet

6GK5216-0BA00-2AB2

product description



Preset for PROFINET mode!

SCALANCE XB216 managed Layer 2 IE switch, 16X 10/100 Mbps RJ45 ports, 1x console port, diagnostics LEDs redundant power supply IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; mounting onto standard rail, PROFINET IO device Ethernet/IP certificate, default PROFINET

product type designation	SCALANCE XB216	
transfer 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 / other		
number of electrical connections		
 for operator console 	1	
 for management purposes 	1	
 for power 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		
product component / connection for redundant voltage supply	Yes	
type of voltage / 1 / of the supply voltage	DC	
 supply voltage / 1 / rated value 	24 V	
 power loss [W] / 1 / rated value 	6.7 W	
 supply voltage / 1 / rated value 	19.2 28.8 V	
 consumed current / 1 / maximum 	0.28 A	
 type of electrical connection / 1 / for power supply 	6-pole terminal block	
 product component / 1 / fusing at power supply input 	Yes	
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 weights		
design	Box	
width	80 mm	
height	117 mm	

net.weght 0.4 kg material of the encloaure Plastic bastering method vali mouting • soft mouting No • 57-500 rail mounting So eccading in cases of safe rapoday any (depending only on signal propagation time) product function Yes • Null Support Yes • Null Support Yes • Null RT / PROFINET On Switch No • Ordiguration with STEP 7 Yes • Null RT / PROFINET On Switch No • Ordiguration with STEP 7 Yes • Null RT / PROFINET On Switch No • Ordiguration with STEP 7 Yes • Null RT / PROFINET On Switch No • Ordiguration with STEP 7 Yes • No Yes • No Yes • No Yes • No Yes • PROFINET Conformity data B	depth	109 mm
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• No • 57:300 ral mounting No • 57:500 ral mounting No • 57:500 ral mounting No • 57:500 ral mounting No • 65:71:500 ral mounting So • reconfiguration fine of <=0.3-s	fastening method	
 S7-300 ral mounting No 27-300 ral mounting No 27-300 ral mounting 28-300 ral mounting<!--</td--><td> 35 mm top hat DIN rail mounting </td><td>Yes</td>	 35 mm top hat DIN rail mounting 	Yes
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product features, product functions, product components / general cascading in the case of a redundant ring / at consignation in col <<-0.3v	S7-300 rail mounting	No
cascading in the case of a redundant inp / at recondiguation time of <-0.3-8-9	S7-1500 rail mounting	No
reconfiguration time of0.3x-s cascading in cases of star topology any (depending on signal propagation time) product function Yes • CLI Yes • web based management Yes • Mill support Yes • TRAPs via email Yes • Configuration with STEP 7 Yes • RNON Yes • multipot intrioring No • configuration with STEP 7 Yes • RNON Yes • multipot intrioring No • numbipot intrioring No • Cos Yes • PROFINET Conformity class Pes • PROFINET conformity class Pes • FITP Yes • HITTPS Yes • HITTPS Yes • HITTPS Yes • FITP Yes • GOOP Yes • Elegrand length / for Element / maximum 1522 byte • DOCP Yes • HITTPS Yes • GOOTP Yes • S	product features, product functions, product components	/ general
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • INBA support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • nution with STEP 7 Yes • nution minroring No • cock Yes • multion timroring No • cock Yes • multion timroring No • cock Yes • multion timroring No • cock Yes • probe/int ITO diagnosis Yes • product function Yes relation / switch-managed Yes • FITP Yes • FITPS Yes • FITP Yes • Elegram length / for Element / maximum 1522 byle • Dock Yes • Elegram length / for Element / maximum 1522 byle • FITP Yes • Elevel Ave/IP Yes • Elevel Ave/IP <td></td> <td>50</td>		50
product function Yes • CU Yes • web-based management Yes • TRAPs via enail Yes • TRAPs via enail Yes • Configuration with STEP 7 Yes • prot mirroring Yes • nullport mirroring Yes • nullport mirroring Yes • CoS Yes • CoS Yes • PROFINET IO switch No • PROFINET IO diagnosis Yes • PROFINET IO diagnosis Yes • Protocol / is supported Yes • TITP Yes • IthTP Yes • TETP Yes • Elegran length for Ethernet / maximum 1522 byte protocol / is supported Yes • TITP Yes • TITP Yes • Elegran length for Ethernet / maximum 1522 byte • DCP Yes • Elegran length for Ethernet / reaction Yes • SMMP v1 Yes • SMMP v1 Yes	cascading in cases of star topology	any (depending only on signal propagation time)
· CLIYes• web-based managementYes• MB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7Yes• RMONYes• port mirroringYes• multiport mirroringNo• CoSYes• multiport mirroringNo• PROFINET to diagnosisYes• profici for SwitchYes• profici for SwitchYes• profici or switch-managedYes• ItelinetYes• ItelinetYes<	product functions / management, configuration, engineeri	ng
•web-based managementYes•MB supportYes•TRAPs via emailYes•configuration with STEP 7Yes•RMONYes•port minroringYes•nutliport minroringNo•CosYes•mutliport minroringNo•CosYes•mutliport minroringNo•CosYes•POFINET IO diagnosisPes•product function / switch-managedYes•POFINET IO diagnosisBproduct function / switch-managedYes•telagrain length / for Ethemet / maximum1522 byteprotocol / is supportedYes•TTPYes•TTPYes•TTPYes•TTPYes•TTPYes•EtherNet/IP </td <td>product function</td> <td></td>	product function	
MB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• RMONYes• protinitrinoringNo• cockYes• multiport mirroringNo• CockYes• multiport mirroringNo• CockYes• multiport mirroringNo• PROFINET 10 diagnosisYes• PROFINET 10 diagnosisYes• PROFINET contomity classB• product function / switch-managedYes• TelnetYes• TelnetYes• TTTPsYes• HTTPsYes• TTTPYes• FTPYes• Elegram length / for Ethernet / maximum1522 byte• Drotocol / is supportedYes• TelnetYes• TTTPYes• HTTPSYes• FTPYes• EtherNet/IPPYes• EtherNet/IPPYes• EtherNet/IPPYes• IGMP (copping/querier)Yes• IGMP (copping/querier)Yes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification S maintenanc	• CLI	Yes
TRAPs via emailYes• configuration with STEP 7Yes• RMONYes• port mirroringYes• multiport mirroringNo• CoSYes• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesLefegrain length / for Ethernet / maximum1522 byteprotocol / is supportedYes• TeihnetYes• HTTP PYes• HTTP PYes• Ethernet / maximumYes• Ethernet / maximumYes• Solt / SupportedYes• TeihnetYes• HTTP PYes• Ethernet / PPYes• Ethernet / PPYes• Ethernet / PPYes• BOOTPYes• Ethernet/IPPYes• SNINP v1Yes• SNINP v3Yes• Identification R maintenance functionYes• Identification R maintenance functionYes• Identification R maintenance functionYes• Identification R maintenance functionYes• product functions / alignosticsYes• error statisticsYes• statistics Packet SizeYes• error statisticsYes• product functions / ULANYes• votAN + protocol-baseedYes• votAN + protocol-baseedNo• vUAN + probasedNo• vUAN + probasedNo• vUAN + probaseed </td <td> web-based management </td> <td>Yes</td>	 web-based management 	Yes
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• RMONYes• port mirroringNo• CoSYes• with IRT / PROFINET IO switchNo• PROFINET conformity classB• PROFINET conformity classBproduct function / switch-managedYestelegram length / for Ethemet / maximum1522 byte• TeinetYes• HTTPYes• Etherket/IPYes• Etherket/IPYes• Etherket/IPYes• Etherket/IPYes• SIMIP v1Yes• SIMIP v2Yes• SIMIP v3Yes• IGMP (snooping/querier)Yes• IdagnosticsYes• Product functions / alignosticsYes• IsMin - etwice specific informationYes• IsMin - etwice specific informationYes• statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• error statisticsYes• product functions / utansYes• error statisticsYes• product functions / utansYes• product functions / utansYes• product functions / utansYes• product functions / utansYes• total statistics Packet SizeYes• statistics Packet Size	TRAPs via email	Yes
• RMONYes• port mirroringNo• CoSYes• with IRT / PROFINET IO switchNo• PROFINET conformity classB• PROFINET conformity classBproduct function / switch-managedYestelegram length / for Ethemet / maximum1522 byte• TeinetYes• HTTPYes• Etherket/IPYes• Etherket/IPYes• Etherket/IPYes• Etherket/IPYes• SIMIP v1Yes• SIMIP v2Yes• SIMIP v3Yes• IGMP (snooping/querier)Yes• IdagnosticsYes• Product functions / alignosticsYes• IsMin - etwice specific informationYes• IsMin - etwice specific informationYes• statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• error statisticsYes• product functions / utansYes• error statisticsYes• product functions / utansYes• product functions / utansYes• product functions / utansYes• product functions / utansYes• total statistics Packet SizeYes• statistics Packet Size	 configuration with STEP 7 	Yes
• multiport mirroringNo• CoSYes• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYes• PROFINET conformity classBproduct function / switch-managedYestelegran length / for Ethernet / maximum1522 byteprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPYes• HTTPYes• FIPYes• BOOTPYes• EtherNet/IPYes• EtherNet/IPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• IGMP (snooping/querier)Yesi GMD (snooping/querier)Yesreferition & maintenance functionYes• Istatistics Packet SizeYes• statistics Packet SizeYes• statistics Packet SizeYes• statistics Packet SizeYes• product functionYes• statistics Packet SizeYes• statistics Packet SizeYes• statistics Packet SizeYes• boopback diagnosticsYes• boopback diagnosticsYes• boopback diagnosticsYes• boopback diagnosticsYes• vLAN - prot basedNo• vLAN - prot basedNo	-	Yes
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• CoS Yes • with IRT / PROFINET IO switch No • PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes telegrain length / for Ethernet / maximum 1522 byte protocol / is supported Yes • Teinet Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • BOOTP No • DCP Yes • EtherNet/IP Yes • BOOTP No • DCP Yes • EtherNet/IP Yes • SIMMP v2 Yes • SIMMP v3 Yes • SIMMP v3 Yes • SIMMP v3 Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • ISMN P v3 Yes • ISMN - laignostics Yes • statistics Packet Size Yes • statistics Packet Size Yes • statistics Packet Size Yes • loopback diagnostics Yes • porduct function Yes • statistics Packet Size Yes • loopback diagnostics Yes • lo		No
• PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes Lelegram length / for Ethernet / maximum 1522 byte protocol / is supported Yes • Teinet Yes • HITTP Yes • HITTPS Yes • HITTP Yes • BOOTP Yes • SIMMP v1 Yes • SIMMP v2 Yes • IGMP (snooping/querier) Yes • Identification A maintenance function Yes • Identification S / diagnostics Yes • pord diagnostics Yes		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 • TFTP Yes • BOOTP No • DCP Yes • EtherNet/IP Yes • SIMMP v3 Yes • SIMMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes • IBM0 - device-specific information Yes • IdM1 - higher level designation/location designation Yes product function Yes • statistics packet Size Yes • statistics packet Size Yes • statistics packet type Yes • statistics packet Size Yes • product function Yes • product function Yes • vickAN - port based Yes • VLAN - port based Yes • VLAN - IP-based No • VLAN - IP-based	with IRT / PROFINET IO switch	No
product function / switch-managed Yes tetegram length / for Ethernet / maximum 1522 byte protocol / is supported Telnet • Telnet Yes • HTTP Yes • HTTPS Yes • FTP Yes • FTP Yes • DCP Yes • EtherNet/IP Yes • SIMMP v2 Yes • SIMMP v3 Yes • SIMMP v3 Yes • SIMMP v3 Yes • SIMMP v3 Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • Identification & statistics Packet Size Yes product function Yes • Identification & Yes Yes • Identificat	 PROFINET IO diagnosis 	Yes
telegram length / for Ethernet / maximum 1522 byte protocol / is supported Yes • HTTP Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • FTP Yes • BOOTP No • DCP Yes • LDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes • I&MO - device-specific information Yes • I&MO - device-specific information Yes • Identification & maintenance function Yes • I&MO - device-specific information Yes • Identification & fulganostics Yes product function Yes • attaitics packet Size Yes • statistics packet type Yes • loopback diagnostics Yes • SysLog Yes • loopback diagnostics Yes • VLAN - port based No • VLAN - IP- based No • VLAN - IP-based No • VLAN dynamic No	PROFINET conformity class	В
protocol / is supported Yes • Finet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP Yes • BOOTP No • DCP Yes • LLDP Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • Identification & maintenance function Yes • istimics Packet Size Yes • arror statistics Yes • arror statistics Yes • error statistics Yes • error statistics Yes • opoback diagnostics Yes • opoback diagnostics Yes • VLAN - port based Yes • VLAN - port based No • VLAN - IP-based No • VLAN - IP-based No • VLAN - IP-based No <td>product function / switch-managed</td> <td>Yes</td>	product function / switch-managed	Yes
• TelnetYes• HTTPYes• HTTPSYes• HTTPSYes• FTPYes• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• IGMP (snooping/querier)Yes• Igme (snooping/querier	telegram length / for Ethernet / maximum	1522 byte
• HTTPYes• HTTPSYes• HTTPSYes• FTPYes• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• IdMU - device-specific informationYes• IdMU - device-specific informationYes• statistics Packet SizeYes• statistics Packet SizeYes• statistics packet typeYes• statistics packet typeYes• ophak diagnosticsYes• product functionYes• statistics packet typeYes• statistics packet typeYes• ophak diagnosticsYes• vLAN - port basedYes• VLAN - protbasedNo• VLAN - IP-basedNo• VLAN opamicNo• VLAN NamicNo	protocol / is supported	
HTTPSYes• FTPYes• FTPYes• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• IRMO - device-specific informationYesproduct functions / diagnosticsYes• statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• opophack diagnosticsYes• product functionYes• vLAN - port basedYes• VLAN - prot basedNo• VLAN - IP-basedNo• VLAN - IP-basedNo• VLAN namicNo• VLAN namicNo	• Telnet	Yes
• TFTPYes• FTPYes• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• I&MO - device-specific informationYesproduct functions / diagnosticsYesproduct functionsYes• statistics Packet SizeYes• statistics packet typeYes• opoth diagnosticsYes• opoth diagnosticsYes• statistics packet typeYes• opoth diagnosticsYes• opoth diagnosticsYes• statistics packet sizeYes• opoth diagnosticsYes• VLAN - prot basedYes• VLAN - prot basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• HTTP	Yes
• FTPYes• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• Igmot functions / diagnosticsYes• Igmot function / lagnosticsYes• opt diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• ophot diagnosticsYes• ophot diagnosticsYes• ophot diagnosticsYes• vLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• HTTPS	Yes
• BOOTPNo• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• opt diagnosticsYes• port diagnosticsYes• opt diagnosticsYes• opt diagnosticsYes• opt diagnosticsYes• opt diagnosticsYes• opt diagnosticsYes• opt opt basedNo• VLAN - port basedNo• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN opnanicNo	• TFTP	Yes
• DCPYes• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• Identification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functionYes• statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• loopback diagnosticsYesproduct functionYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• FTP	Yes
• LLDPYes• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• Identification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functionYes• port diagnosticsYes• statistics Packet SizeYes• statistics Packet SizeYes• error statisticsYes• loopback diagnosticsYes• product functionYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• BOOTP	No
• EtherNet/IPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M0 - device-specific informationYesproduct functions / diagnosticsYesproduct functionYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYes• loopback diagnosticsYes• product functionYes• error statisticsYes• loopback diagnosticsYes• loopback diagnosticsYes• loopback diagnosticsYes• vLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• DCP	Yes
SNMP v1YesSNMP v2YesSNMP v3YesIGMP (snooping/querier)Yesidentification & maintenance function*I&M0 - device-specific informationYesidentification & lagnosticsYesproduct functions / diagnosticsYesopt diagnosticsYesstatistics Packet SizeYeserror statisticsYesstatistics packet typeYeserror statisticsYesopback diagnosticsYesproduct functions / VLANYesproduct functionYesvLAN - port basedYesvLAN - protocol-basedNovLAN - IP-basedNovLAN dynamicNo	• LLDP	Yes
• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYesproduct functionYes• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• statistics packet typeYes• sold diagnosticsYes• porduct functionYes• pord diagnosticsYes• statistics packet typeYes• statistics packet typeYes• statistics packet typeYes• product functionYes• product functionYes• product functionYes• ULAN - port basedYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	EtherNet/IP	Yes
• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYes• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYes• solutions / vesYes• porduct functionsYes• statistics packet typeYes• statistics packet typeYes• statisticsYes• solutionsYes• error statisticsYes• loopback diagnosticsYes• loopback diagnosticsYes• vLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	• SNMP v1	Yes
IGMP (snooping/querier)Yesidentification & maintenance functionYesI&M0 - device-specific informationYesI&M1 - higher level designation/location designationYesproduct functions / diagnosticsYesoport diagnosticsYesestatistics Packet SizeYeserror statisticsYeserror statisticsYesolopback diagnosticsYesproduct functionYeserror statisticsYesopt duagnosticsYesvesYesopt duagnosticsYesvesYesopt duagnosticsYesvesYesopt duagnosticsYesvesYesopt duagnosticsYesvesYesvesYesvesYesvesVLAN - port basedvVLAN - protocol-basedNovVLAN - IP-basedNovVLAN dynamicNo	• SNMP v2	Yes
identification & maintenance function • I&MO - 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 product function • VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic • VLAN dynamic • VLAN dynamic • VLAN dynamic	• SNMP v3	Yes
• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYes• port diagnosticsYes• statistics Packet SizeYes• statistics packet typeYes• error statisticsYes• SysLogYes• loopback diagnosticsYesproduct functionYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN vLAN in P-basedNo• VLAN dynamicNo	IGMP (snooping/querier)	Yes
• I&M1 - higher level designation/location designation Yes product functions / diagnostics Free Statistics Packet Size • port diagnostics Yes • statistics Packet Size Yes • statistics packet type Yes • error statistics Yes • loopback diagnostics Yes • loopback diagnostics Yes product function Yes • loopback diagnostics Yes product function Yes • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No	identification & maintenance function	
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• statistics packet typeYes• error statisticsYes• SysLogYes• loopback diagnosticsYesproduct functions / VLANYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	 port diagnostics 	Yes
• error statisticsYes• SysLogYes• loopback diagnosticsYesproduct functions / VLANYesproduct functionYes• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	 statistics Packet Size 	Yes
• SysLogYes• loopback diagnosticsYesproduct functions / VLANproduct function• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNo• VLAN dynamicNo	 statistics packet type 	Yes
Ioopback diagnostics Yes product functions / VLAN product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic		
product functions / VLAN product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No		
product function Yes • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No		Yes
• VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No	product functions / VLAN	
• VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No	product function	
VLAN - IP-based No VLAN dynamic No	 VLAN - port based 	Yes
VLAN dynamic No	 VLAN - protocol-based 	No
		No
product functions / DHCP	VLAN dynamic	No
	product functions / DHCP	

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 	Yes
redundancy manager	
 high speed redundancy protocol (HRP) with standby redundancy 	Yes
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 RSTP+ 	Yes
redundancy procedure MSTP	No
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
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	
	Yes
protocol / is supported	Yes Yes
protocol / is supported • NTP	
protocol / is supported • NTP • SNTP	
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm standard / for hazardous zone • from CSA and UL certificate of suitability	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes Nents EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environn standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A,
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm standard / for hazardous zone • from CSA and UL certificate of suitability	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes Nents EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environn standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes Nents EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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 Yes
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environn standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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 Yes EN 61000-6-2, EN 61000-6-4
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • C-Tick	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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 Yes EN 61000-6-2, EN 61000-6-4 Yes
protocol / is supported • NTP • SNTP standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking standards, specifications, approvals / hazardous environm standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval	Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes Yes EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X 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 Yes EN 61000-6-2, EN 61000-6-4 Yes Yes

further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	http://www.siemens.com/simatic-net
 to website: Industry Mall 	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	http://www.siemens.com/cax
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last modified.	7/4/2024

7/1/2021 🖸