# **SIEMENS**

## Data sheet

### Product type designation

# 6GK5416-4GS00-2AM2



### SCALANCE XM416-4C

SCALANCE XM416-4C; MANAGED MODULAR IE SWITCH; 16 X 10/100/1000 MBIT/S RJ45; 4 X 100/1000 MBIT/S SFP; CONTAINS 4 COMBO PORTS; 16 PORTS USABLE IN TOTAL; EXPANDABLE UP TO 24 PORTS ELECTRICAL OR OPTICAL; LAYER 3 WITH KEY PLUG AVAILABLE MOUNTING DIN-/S7-PROFILE-RAIL PROFINET-IO DEVICE; REDUNDANCY FUNCTIONS; OFFICE FEATURES (RSTP, VLAN, IGMP,...); C-PLUG IN SCOPE OF SUPPLY

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical/optical connections	
<ul> <li>for network components or terminal equipment</li> <li>/ maximum</li> </ul>	24
<ul> <li>as combo port / for network components or terminal equipment</li> </ul>	4
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> <li>/ with extender modules</li> </ul>	8
Design of electrical/optical connections / for network components or terminal equipment	SFP
Type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 port
<ul> <li>for network components or terminal equipment</li> <li>/ with extender modules</li> </ul>	RJ45 port
Number of optical interfaces	

<ul> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	4
<ul> <li>for fiber optic cable / at 1000 Mbit/s</li> </ul>	4
<ul> <li>for fiber optic cable / with extender modules</li> </ul>	8
Design of the optical interface	
<ul> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	SFP slot
<ul> <li>for fiber optic cable / at 1000 Mbit/s</li> </ul>	SFP slot
<ul> <li>for fiber optic cable / with extender modules</li> </ul>	SFP slot
Interfaces / for communication / integrated	
Number of electrical connections / for network	16
components or terminal equipment	
Number of electrical connections / for Power-over- Ethernet / for network components or terminal	0
equipment	
Number of electrical connections	
• for SFP	4
Number of combo ports / with RJ45 interface for	4
optical plug-in transceiver	
Interfaces / for communication / pluggable / maximu Number of electrical connections	um
	12
• for SFP	12
Interferen / ethere	
Interfaces / others	
Number of electrical connections	
	1
Number of electrical connections	1 1
Number of electrical connections <ul> <li>for operator console</li> </ul>	
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> </ul>	1
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> </ul>	1 1
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> </ul>	1 1 1
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul>	1 1 1
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul> Type of electrical connection	1 1 1 1
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul> Type of electrical connection <ul> <li>for operator console</li> </ul>	1 1 1 1 1 RJ11 port
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul> Type of electrical connection <ul> <li>for operator console</li> <li>for management purposes</li> </ul>	1 1 1 1 RJ11 port RJ45 port
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul> Type of electrical connection <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> </ul>	1 1 1 1 1 RJ11 port RJ45 port 2-pole terminal block
Number of electrical connections <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul> Type of electrical connection <ul> <li>for operator console</li> <li>for management purposes</li> <li>for signaling contact</li> <li>for signaling contact</li> <li>for signaling contact</li> </ul>	1 1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for management purposes         • for operator console         • for signaling contact         • for signaling contact         • for power supply         Number of extender expansion interfaces	1 1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for management purposes         • for signaling contact         • for signaling contact         • for signaling contact         • for power supply         Number of extender expansion interfaces         design of the removable storage	1 1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2
Number of electrical connections • for operator console • for management purposes • for signaling contact • for power supply • for redundant voltage supply Type of electrical connection • for operator console • for management purposes • for signaling contact • for power supply Number of extender expansion interfaces design of the removable storage • C-PLUG/KEY-PLUG Product property / hot-swappable interface modules	1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2 Yes
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for operator console         • for management purposes         • for signaling contact         • for signaling contact         • for power supply         Number of extender expansion interfaces         design of the removable storage         • C-PLUG/KEY-PLUG	1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2 Yes
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for operator console         • for operator console         • for signaling contact         • for signaling contact         • for power supply         Number of extender expansion interfaces         design of the removable storage         • C-PLUG/KEY-PLUG         Product property / hot-swappable interface modules         Signal-Inputs/outputs	1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2 Yes
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for operator console         • for signaling contact         • for operator console         • for signaling contact         • for power supply         Number of extender expansion interfaces         design of the removable storage         • C-PLUG/KEY-PLUG         Product property / hot-swappable interface modules         Signal-Inputs/outputs         Operating voltage / of the signaling contacts	1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2 Yes Yes
Number of electrical connections         • for operator console         • for management purposes         • for signaling contact         • for power supply         • for redundant voltage supply         Type of electrical connection         • for operator console         • for operator console         • for operator console         • for management purposes         • for signaling contact         • for power supply         Number of extender expansion interfaces         design of the removable storage         • C-PLUG/KEY-PLUG         Product property / hot-swappable interface modules         Signal-Inputs/outputs         Operating voltage / of the signaling contacts         • at DC / Rated value	1 1 1 RJ11 port RJ45 port 2-pole terminal block 4-pole terminal block 2 Yes Yes

Type of voltage supply / redundant power supply unit         No           Type of voltage / of the supply voltage         DC           Supply voltage         24 V           • external         19.228.8 V           Product component / fusing at power supply unput         Yes           Fuse protection type / at input for supply voltage         F 15 A / 125 V           Consumed current / maximum         2A           • at DC / at 24 V         48 W           Active power loss         -           • at DC / at 24 V         48 W           Active power supplied / of PSE / with PoE         -           • per port / maximum         30 W           • total / maximum         80 W           • total / maximum         180 W           • total / maximum         90 W           • total / maximum         90 W           • during operation         -40 +70 °C           • during storage         40 +85 °C           • during storage         95 %           • during storage         140 mm           • at 25 °C / without condensation / during operation / maximum         Product condensation / during operation / maximum           Protection class IP         IP20           Design         SilMATIC S7-1500 device design		Supply voltage, current consumption, power loss
Supply voltage         24 V           • external         19.228.8 V           Product component / fusing at power supply input         Yes           Fuse protection type / at input for supply voltage         F15.A / 125 V           Consumed current / maximum         2.A           Active power loss         48 W           • at D C / at 24 V         48 W           Active power suppled / of PSE / with PoE         90 W           • beap ropt / maximum         180 W           Pormitled ambient conditions	)	
• external       24 V         • external       19.2 28.8 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       F 15 A / 125 V         Consumed current / maximum       2 A         Active power loss       48 W         • at DC / at 24 V       48 W         Active power supplied / of PSE / with PoE       -         • per port / maximum       30 W         • total / maximum       180 W         • total / maximum       40 +70 °C         • during operatore       -         • during storage       -40 +85 °C         • during storage       -40 +85 °C         • during transport       -         Protection class IP       IP20         Protection class IP       IP20         Pesign       SIMATIC S7-1500 device design         Width       140 mm         Height       125 mm         Not       125 mm         Noting type       -         • sign mounting       Yes         • sign mounting       No         • sign mounting       Yes         • sort in mounting       Yes         • sort in mounting       Yes </td <td>2</td> <td>Type of voltage / of the supply voltage</td>	2	Type of voltage / of the supply voltage
external         19.2 28.8 V           Product component / fusing at power supply input         Yes           Fuse protection type / at input for supply voltage         F 15 A / 125 V           Consumed current / maximum         2 A           Active power loss         at DC / at 24 V           • at DC / at 24 V         48 W           Active power supplied / of PSE / with PoE         •           • per port / maximum         30 W           • total / maximum         180 W           * total / maximum         180 W           * oting storage         -40 +70 °C           • during storage         -40 +85 °C           • during transport         -40 +85 °C           • atting transport         -40 +85 °C           • atting transport         95 %           • atting transport         95 %           • atting transport         IP20           Posign         SIMATIC S7-1500 device design           Width         140 mm           Height         147 mm           Posign         Simonito stand weight           Design         No           Width         140 mm           Height         147 mm           I S5 mn DIN rail mounting         Yes <t< td=""><td></td><td>Supply voltage</td></t<>		Supply voltage
Product component / fusing at power supply input         Yes           Fuse protection type / at input for supply voltage         F 15 A / 125 V           Consumed current / maximum         2 A           Active power loss         -           - at D C / at 24 V         48 W           Active power supplied / of PSE / with PoE         -           - per port / maximum         30 W           - total / maximum         30 W           - total / maximum         180 W           * ottal / maximum         -           - per port / maximum         30 W           - ottal / maximum         -           - ottal / maximum         180 W           * ottal / maximum         -           - during operation         -40 +70 °C           - during storage         -40 +85 °C           - during transport         -40 +85 °C           Relative humidity         -           - at 25 °C / without condensation / during         -           operation / maximum         -           Protection class IP         IP20 <t< td=""><td>V</td><td>• external</td></t<>	V	• external
Fuse protection type / at input for supply voltage         F 15 A / 125 V           Consumed current / maximum         2 A           Active power loss         -           • at DC / at 24 V         48 W           Active power supplied / of PSE / with POE         -           • per port / maximum         30 W           • total / maximum         180 W           Permitted ambient conditions         -           Ambient temperature         -40 +70 °C           • during storage         -40 +85 °C           • during transport         -40 +85 °C           Relative humidity         -           • at 25 °C / without condensation / during operation (maximum)         -           Protection class IP         IP20           Design, dimensions and weight         -           Design, dimensions and weight         140 mm           Protection class IP         125 mm           Net weight         142 mm           Net weight         125 kg           Mounting type         -           • 19-inch installation         No           • 35 mm DIN rail mounting         Yes           • S7-300 rail mounting         Yes           • S7-1500 rail mounting         Yes	.2 28.8 V	• external
Consumed current / maximum       2 A         Active power loss       48 W         Active power supplied / of PSE / with PoE       90 W         • ber port / maximum       30 W         • total / maximum       30 W         • total / maximum       30 W         • total / maximum       30 W         • during operation       -40 +70 °C         • during operation       -40 +85 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • during transport       -95 %         • during transport       -95 %         • during transport       -10 +85 °C         • during transport       -40 +85 °C         • during transport       -95 %         • during transport       -10 +85 °C         • during transport       -17 mm         Design       1/25 mm         Width       1/40 mm	25 25	Product component / fusing at power supply input
Active power loss       48 W         Active power supplied / of PSE / with POE       30 W         • per port / maximum       30 W         • total / maximum       180 W         Permitted ambient conditions       40 +70 °C         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • during transport       -40 +85 °C         • during transport       -95 %         • at 25 °C / without condensation / during operation / maximum       95 %         Protection class IP       IP20         Design       SIMATIC S7-1500 device design         Width       140 mm         Height       147 mm         Depth       1.25 kg         Mounting type       -         • 19-inch installation       No         • s5 rm DIN rail mounting       Yes         • s5 rm DIN rail mounting       Yes         • s7-1500 rail mounting       any (depe	15 A / 125 V	Fuse protection type / at input for supply voltage
• at DC / at 24 V       48 W         Active power supplied / of PSE / with PoE       30 W         • per port / maximum       30 W         • total / maximum       180 W         • total / maximum       180 W         • total / maximum       180 W         • during operation       -40 +70 °C         • during storage       -40 +70 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       95 %         • at 25 °C / without condensation / during operation / maximum       Protection class IP         Protection class IP       IP20         Design       SIMATIC S7-1500 device design         Width       140 mm         Height       147 mm         Depth       125 mm         Notunting type       -         • 19-inch installation       No         • 35 mm DIN rail mounting       Yes         • wail mounting       Yes         • wail mounting       Yes         • S7-300 rail mounting       Yes         • S7-1500 rail mounting       Yes         • S7-1500 rail mounting       Yes         • S7-1500 rail mounting       any (depending only on signal propagation time)	A	Consumed current / maximum
Active power supplied / of PSE / with PoE           • per pot / maximum         30 W           • total / maximum         30 W           • total / maximum         180 W           *ermitted ambient conditions         -40 +70 °C           Ambient temperature         -40 +70 °C           • during operation         -40 +85 °C           • during transport         -40 +85 °C           • during transport         -40 +85 °C           • during transport         IP20           Portection class IP         IP20           Design         SIMATIC S7-1500 device design           Width         140 mm           Height         147 mm           Depth         125 mm           Net weight         1.25 kg           Mouning type         -           • 19-inch installation         No           • 35 mm DIN rail mounting         Yes           • S7-300 rail mounting         Yes           • S7-1500 rail mounting         Yes		Active power loss
• per port / maximum30 W• total / maximum180 W• during analysis180 W• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °C• during transport-120 +85 °C• during transport-125 mm• during transport-125 kg• during transport-125 kg• during t	W	• at DC / at 24 V
• total / maximum       180 W         Permitted ambient conditions		Active power supplied / of PSE / with PoE
Parmitted ambient conditions         Ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during storage</li> <li>during transport</li> <li>40 +70 °C</li> <li>during storage</li> <li>during transport</li> <li>40 +85 °C</li> <li>during transport</li> <li>40 +85 °C</li> </ul> <li>Relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> <li>Protection class IP</li> </ul> </li> <li>Protection class IP</li> <li>IP20</li> <li>Design, dimensions and weight</li> <li>Design, dimensions and weight</li> <li>140 mm</li> <li>Height</li> <li>140 mm</li> <li>Height</li> <li>147 mm</li> <li>Depth</li> <li>125 mm</li> <li>Stime II to the stallation</li> <li>35 mm DIN rail mounting</li> <li>Yes</li> <li>soft ail mounting</li> <li>ST-1500 rail mounting</li> <li>Yes</li> <li>Product properties, functions, components / general</li> <li>Cascading in cases of star topology</li> <li>any (depending only on signal propagation time)</li>	W	• per port / maximum
Ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • during transport       -40 +85 °C         Relative humidity       -40 +85 °C         • ext 25 °C / without condensation / during operation / maximum       95 %         Design       IIP20         Design, dimensions and weight       140 mm         Height       147 mm         Depth       1.25 kg         Mounting type       -         • 19-inch installation       No         • 35 mm DIN rail mounting       Yes         • wall mounting       Yes         • S7-300 rail mounting       Yes         • S7-1500 rail mounti	0 W	• total / maximum
• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °CRelative humidity operation / maximum95 %• at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weight140 mmDesign, dimensions and weight140 mmHeight147 mmDepth125 mmNet weight1.25 kgMounting type • 19 ·inch installationNo• 35 mm DIN rail mounting 		Permitted ambient conditions
etailing sprate-40 +85 °Céturing storage-40 +85 °CRelative humidity-40 +85 °C• at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weight140 mmDesign, dimensions and weight140 mmHeight147 mmDepth125 mmNet weight1.25 kgMounting type• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingYes• S7-300 rail mountingYes• S7-1500 rail mountingYesProduct properties, functions, components / generalany (depending only on signal propagation time)Product functions / management, configurationany (depending only on signal propagation time)		Ambient temperature
• during transport-40 +85 °CRelative humidity • at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weight140 mmDesign, dimensions and weight140 mmDesign147 mmDepth125 mmNet weight1.25 kgMounting type1• 19-inch installationNo• 35 mm DIN rail mountingYes• s7-300 rail mountingYes• S7-1500 rail mountingYes• Cascading in cases of star topologyany (depending only on signal propagation time)• Product functions / management, configurationany (depending only on signal propagation time)	0 +70 °C	<ul> <li>during operation</li> </ul>
Relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> <li>Protection class IP</li> <li>IP20</li> </ul> Design, dimensions and weight <ul> <li>IP20</li> </ul> Design, dimensions and weight <li>Design</li> <li>SIMATIC S7-1500 device design</li> Width         140 mm           Height         147 mm           Depth         125 mm           Net weight         1.25 kg           Mounting type             • 19-inch installation         No           • 35 mm DIN rail mounting         Yes           • wall mounting         Yes           • S7-300 rail mounting         Yes           • S7-1500 rail mounting         Yes           Product properties, functions, components / general         Cascading in cases of star topology           Product functions / management, configuration <ul> <li>any (depending only on signal propagation time)</li> <li>Product functions / management, configuration</li> </ul>	0 +85 °C	<ul> <li>during storage</li> </ul>
• at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weightIP20Design (dimensions and weight)SIMATIC S7-1500 device designWidth140 mmHeight147 mmDepth125 mmNet weight1.25 kgMounting type • 19-inch installationNo• 35 mm DIN rail mounting • s7-300 rail mountingYesProduct properties, functions, components / general Cascading in cases of star topologyany (depending only on signal propagation time)Product functions / management, configurationany (depending only on signal propagation time)	0 +85 °C	during transport
operation / maximumIP20Protection class IPIP20Design, dimensions and weightIP20Design (dimensions and weight140 mmDesign (Width 140 mm)140 mmHeight 147 mm125 mmDepth 125 mm1.25 kgMounting typeImage: Strain St		Relative humidity
Protection class IP       IP20         Design, dimensions and weight       SIMATIC S7-1500 device design         Design       \$IMATIC S7-1500 device design         Width       140 mm         Height       147 mm         Depth       125 mm         Net weight       1.25 kg         Mounting type	%	• at 25 °C / without condensation / during
Design, dimensions and weight         Design       SIMATIC S7-1500 device design         Width       140 mm         Height       147 mm         Depth       125 mm         Net weight       1.25 kg         Mounting type		operation / maximum
DesignSIMATIC S7-1500 device designWidth140 mmHeight147 mmDepth125 mmNet weight1.25 kgMounting type-• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingYes• S7-300 rail mountingYes• S7-1500 rail mountingYesProduct properties, functions, components / generalCascading in cases of star topologyany (depending only on signal propagation time)	20	Protection class IP
Width140 mmHeight147 mmDepth125 mmNet weight1.25 kgMounting type-• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingNo• S7-300 rail mountingYes• S7-1500 rail mountingYesProduct properties, functions, components / generalCascading in cases of star topologyany (depending only on signal propagation time)		Design, dimensions and weight
Height147 mmDepth125 mmNet weight1.25 kgMounting type	MATIC S7-1500 device design	Design
Depth     125 mm       Net weight     1.25 kg       Mounting type     -       • 19-inch installation     No       • 35 mm DIN rail mounting     Yes       • wall mounting     Yes       • s7-300 rail mounting     Yes       • S7-1500 rail mounting     Yes       Product properties, functions, components / general       Cascading in cases of star topology     any (depending only on signal propagation time)	.0 mm	Width
Net weight1.25 kgMounting type		_
Mounting typeNo• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingNo• wall mountingYes• S7-300 rail mountingYes• S7-1500 rail mountingYes• Coduct properties, functions, components / generalCascading in cases of star topologyany (depending only on signal propagation time)		-
• 19-inch installationNo• 35 mm DIN rail mountingYes• wall mountingNo• S7-300 rail mountingYes• S7-1500 rail mountingYes• S7-1500 rail mountingYes• Coduct properties, functions, components / generalCascading in cases of star topologyany (depending only on signal propagation time)	25 kg	_
<ul> <li>35 mm DIN rail mounting</li> <li>35 mm DIN rail mounting</li> <li>wall mounting</li> <li>S7-300 rail mounting</li> <li>S7-300 rail mounting</li> <li>Yes</li> <li>S7-1500 rail mounting</li> <li>Yes</li> </ul> Product properties, functions, components / general Cascading in cases of star topology any (depending only on signal propagation time) Product functions / management, configuration		•
• wall mounting     No       • S7-300 rail mounting     Yes       • S7-1500 rail mounting     Yes       • Cascading in cases of star topology     any (depending only on signal propagation time)		
S7-300 rail mounting     S7-1500 rail mounting     Yes     Yes		• 35 mm DIN rail mounting
• S7-1500 rail mounting      Yes  Product properties, functions, components / general  Cascading in cases of star topology  Product functions / management, configuration	)	wall mounting
Product properties, functions, components / general Cascading in cases of star topology any (depending only on signal propagation time) Product functions / management, configuration	lS	<ul> <li>S7-300 rail mounting</li> </ul>
Cascading in cases of star topology       any (depending only on signal propagation time)         Product functions / management, configuration	2S	• S7-1500 rail mounting
Product functions / management, configuration		
Product functions / management, configuration	y (depending only on signal propagation time)	Cascading in cases of star topology
		Product functions / management, configuration Product function
web-based management     Yes	!5	<ul> <li>web-based management</li> </ul>

MIB support	Yes
• TRAPs via email	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
Port mirroring	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
<ul> <li>switch-managed</li> </ul>	Yes
Telegram length / for Ethernet / maximum	9216 byte
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Dreadurat functioner / Diagnoscie	
Product functions / Diagnosis Product function	
Port diagnostics	Yes
Statistics Packet Size	Yes
Statistics Packet type	Yes
Error statistics	Yes
SysLog	Yes
- SysLog	1.00
Product functions / VLAN	
Product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	Yes
VLAN - IP-based	Yes

<ul> <li>VLAN dynamic</li> </ul>	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product functions / DHCP	
DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
DHCP Option 67	Yes
Product functions / Routing	ID souther in combination with KEV DLUG VM 400, ID 0 souther to
Service / Routing / Note	IP routing in combination with KEY-PLUG XM-400, IPv6 available soon
Product function	
Static IP routing	Yes
Static IP routing IPv6	No
dynamic IP routing	Yes
dynamic IP routing IPv6	No
Protocol / is supported	
• RIPv2	Yes
RIPnG for IPv6	No
• OSPFv2	Yes
OSPFv3 for IPv6	No
• VRRP	Yes
• VRRP for IPv6	No
Droduct functions / Dodundensy	
Product functions / Redundancy Product function	
Ring redundancy	Yes
High Speed Redundancy Protocol (HRP)	Yes
<ul> <li>high speed redundancy protocol (HRP) with</li> </ul>	Yes
redundancy manager	
<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 MSTP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes

Passive listening	Yes
Protocol / is supported	
• LACP	Yes
Product functions / Security Product function	
ACL - MAC-based	Yes
ACL - port/MAC-based	Yes
• 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
Type of time synchronization	IEEE 1588 available soon
Standards, specifications, approvals	
● for FM	EM2611: Close 1 Divisor 2 Crown A B C D / T4 Close 1 Zono
	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul> <li>for hazardous zone / from CSA and UL</li> </ul>	ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 /
	Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
<ul> <li>for emitted interference</li> </ul>	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
• CE marking	Yes
• C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
Marine classification association	
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
Germanische Lloyd (GL)	Yes
● Nippon Kaiji Kyokai (NK)	Yes
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
MTBF / at 40 °C	22 у
Further Information / Internet Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET</li> </ul>	http://www.siemens.com/snst
SELECTION TOOL	

- to website: Industrial communication
- to website: Industry Mall
- to website: Image database
- to website: CAx Download Manager
  to website: Industry Online Support

# Security information

Security information

http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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