SIEMENS

Data sheet

6GK5416-4GS00-2AM2



SCALANCE XM416-4C; managed modular IE switch; 16x 10/100/1000 Mbit/s RJ45; 4x 100/1000 Mbit/s SFP; contains 4 combo ports; in total 16 ports can be used; expandable to 24 ports electrical or optical; assembly: DIN rail/S7 mounting rail, PROFINET IO device; redundancy functions; office features (RSTP, VLAN, IGMP,..); C-plug in scope of delivery; Layer 3 with key plug available

Product type designation	SCALANCE XM416-4C
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Number of ports / maximum	24
Interfaces / for communication / maximum configuration for modular devices	
Number of electrical ports / maximum	24
Number of electrical ports / with PoE / maximum	8
Number of optical ports / maximum	12
Interfaces / for communication / Integrated	
Number of electrical connections	
 for network components or terminal equipment 	16; RJ45 with securing collar
Number of 10/100/1000 Mbit/s RJ45 ports /	
Integrated	
with securing collar	16
Number of electrical connections	
• for SFP	4; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
Number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver

Number of connectable extender modules	1
Interfaces / for communication / plug-in	
Number of 10/100/1000 Mbit/s RJ45 ports	
with securing collar	8
with securing collar / with PoE	8
Number of 100 Mbit/s LC ports	
• for multimode	12
• for single mode (LD)	12
• for single mode (LH+)	12
• for single mode (ELH200)	12
Number of 1000 Mbit/s LC ports	
• for multimode	12
• for single mode (LD)	12
• for single mode (LH)	12
• for single mode (LH+)	12
• for single mode (ELH)	12
Number of electrical connections	
• for SFP	12; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
Interfaces / other	
Number of electrical connections	
• for operator console	1
for management purposes	1
for signaling contact	1
• for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
• for operator console	RJ11
• for management purposes	RJ45
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
Number of extender expansion interfaces	2
design of the removable storage	
• C-PLUG/KEY-PLUG	Yes
Product feature / hot-swappable interface modules	Yes
Signal inputs/outputs	
Operating voltage / of the signaling contacts	
at DC / Rated value	24 V
Operating current / of the signaling contacts	
at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	

Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	19.2 V
• external / maximum	28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 15 A / 125 V
Consumed current / maximum	2 A
Power loss [W]	
● at DC / at 24 V	48 W
Supplied active power / of PSE / with PoE	
• per port / maximum	30 W
• total / maximum	180 W
A 1.1 (150)	

Ambient conditions	
Ambient temperature	
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 	95 %
Protection class IP	IP20
Design	modular
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	No
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes

Product features, product functions, product components / general

Cascading in cases of star topology any (depending only on signal propagation time)

Yes

Product functions / management, configuration, engineering

Product function

• CLI Yes

web-based management

• MIB support Yes

• TRAP's via email Yes • Configuration with STEP 7 Yes • RMON Yes • Port mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum 9216 byte Protocol / is supported • Telnet • Telnet Yes • HTTP Yes • HTTP Yes • FTP Yes • BOOTP Yes • BOOTP Yes • LLDP Yes • LLDP Yes • SMMP v1 Yes • SMMP v2 Yes • SMMP v3 Yes • Identification & maintenance function Yes • I&M − higher-level designation/location designation Yes • IkMM − higher-level designation/location designation Yes • Statistics Packet Size Yes • Statistics Packet Size Yes • Statistics Pack	- TDAD ' 'I	Voo
RMON Port mirroring Post multiport mirroring CoS PROFINET IO diagnosis PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Yes Protocol / is supported Telegram length / for Ethernet / maximum Protocol / is supported Telegram length / for Ethernet / maximum Protocol / is supported Telnet Yes HTTP Yes HTTP Yes HTTP Yes FTP Yes BOOTP Yes BOOTP GMRP Yes BOOTP Yes SNMP Y SSNMP		
Port mirroring		
• CoS • PROFINET IO diagnosis PROFINET conformity class PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum 9216 byte Protocol / is supported • Telnet • Telnet • Telnet • HITTP • Yes • HITTP • Yes • TFTP • Yes • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • 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 Yes • Error statistics		
PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum 9216 byte Protocol / is supported • Telnet • Telnet • Telnet • Telnet • HITTP • Yes • HITTP • Yes • HITTP • Yes • ETP • BOOTP • GMRP • DCP • LLDP • 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 Yes • Error statistics Product systems and summer and summ		
PROFINET conformity class Product function / switch-managed Yes Telegram length / for Ethernet / maximum 9216 byte Protocol / is supported • Telnet • Telnet • Telnet • HTTP Yes • HTTPS Yes • TFTP Yes • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M0 - device-specific information • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics	• CoS	
Product function / switch-managed Telegram length / for Ethernet / maximum 9216 byte Protocol / is supported • Telnet • Telnet • Telnet • Telnet • Telnet • Telnet • Terp • HTTP Yes • HTTPS Yes • TFTP • Yes • BOOTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M0 - device-specific information • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics Yes • Error statistics		
Telegram length / for Ethernet / maximum 9216 byte		
Protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • HTTPS • FTP • FTP • BOOTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • 18M0 - device-specific information • 18M1 - higher-level designation/location designation Product functions / Diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics		
• Telnet • HTTP • HTTPS • HTTPS • TFTP • HTTP • Yes • TFTP • Yes • FTP • BOOTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&MO - device designation/location designation Product functions / Diagnostics Product function • Port diagnostics Product function • Port diagnostics Product function • Statistics Packet Size • Statistics Packet type • Error statistics Yes • Error statistics Yes		9216 byte
 HTTP Yes 1FTP Yes 1FTP Yes BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Identification & maintenance function I&MO - device-specific information I&MO - device-specific information Yes I&MI – higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Yes Statistics Packet Size Yes Error statistics Yes 		
 HTTPS TFTP Yes FTP BOOTP GMRP DCP LLDP 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 Yes Statistics Packet Size Yes Error statistics Yes 		
	• HTTP	
FTP BOOTP GMRP GMRP Yes DCP LLDP SNMP v1 SNMP v2 SNMP v2 SNMP v3 GlGMRP Gescent Size Substitute Statistics Statistics packet type Statistics packet type Statistics packet size Statistics Substitute	• HTTPS	Yes
BOOTP GMRP GMRP Yes DCP LLDP SNMP v1 SNMP v2 SNMP v2 SNMP v3 GMRP Grouping/querier) Identification & maintenance function Il&M0 - device-specific information Il&M1 - higher-level designation/location designation Product functions / Diagnostics Product function Product function Statistics Packet Size Statistics packet type Fror statistics Yes Fror statistics President Yes Yes Yes Fror statistics Yes Fror statistics Yes Fror statistics Yes Fror statistics Yes	• TFTP	Yes
GMRP DCP Yes LLDP 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 Product Specket Size Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes Yes Yes Yes Error statistics Yes	• FTP	Yes
DCP Ves LLDP Yes SNMP v1 SNMP v2 SNMP v3 Ves 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 Yes Yes Error statistics Yes Yes Yes Error statistics Yes	• BOOTP	Yes
LLDP 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 Yes Yes Yes Yes Yes Yes Yes Y	• GMRP	Yes
SNMP v1 SNMP v2 Yes SNMP v3 IGMP (snooping/querier) Identification & maintenance function IkM0 - device-specific information IkM1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes Yes Yes Yes Yes	• DCP	Yes
SNMP v2 SNMP v3 Yes IGMP (snooping/querier) Identification & maintenance function IkM0 - device-specific information IkM1 - higher-level designation/location designation Product functions / Diagnostics Product function Prot diagnostics Yes Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes Yes	• LLDP	Yes
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 Yes Yes Yes Yes Yes Yes	• SNMP v1	Yes
Identification & maintenance function IskM0 - device-specific information IskM1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes Yes Yes Yes Y	• SNMP v2	Yes
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 Yes Yes	• SNMP v3	Yes
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 Yes Yes	IGMP (snooping/querier)	Yes
I&M1 – higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Yes Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes Yes Yes		
Product functions / Diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics Yes Yes Yes	1&M0 - device-specific information	Yes
Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes	·	Yes
Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics Yes Yes Yes		
Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics Yes Yes Yes	Draduct functions / Diagnostics	
 Port diagnostics Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes Yes 		
 Statistics Packet Size Statistics packet type Error statistics Yes Yes Yes 		Yes
 Statistics packet type Error statistics Yes Yes 		
• Error statistics Yes		
- OyaLog		
	- OysLog	1
Product functions / VLAN Product function		
VLAN - port based Yes		Yes
VLAN - protocol-based Yes Yes	•	
VLAN - IP-based Yes Yes		
• VLAN dynamic Yes	▼ vLAN dynamic	165

Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
DHCP client	Yes
DHCP Option 82	Yes
 DHCP Option 66 	Yes
DHCP Option 67	Yes
Product functions / Routing	
Service / Routing / Note	IP routing in combination with KEY-PLUG XM-400
Product function	
 Static IP routing 	Yes
 Static IP routing IPv6 	Yes
• dynamic IP routing	Yes
dynamic IP routing IPv6	Yes
Protocol / is supported	
• RIPv2	Yes

Yes

Yes

Yes

Yes

Yes

Product functions / redundancy	
Product function	
 Ring redundancy 	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby redundancy 	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 MSTP 	Yes
Passive listening	Yes
Protocol / is supported	

• RIPnG for IPv6

• OSPFv3 for IPv6

VRRP for IPv6

• OSPFv2

• VRRP

Product function Product funct	• LACP	Yes
• ACL - MAC-based • ACL - port/MAC-based • EIEE 802 - 1x (radius) • Broadcast/Multicast/Unicast Limiter • broadcast blocking • Protocol / is supported • SSH Product functions / time Product functions / time Product function • SICLOCK support • SICLOCK support • NTP • SINTP • SINTP • SINTP • SINTP • SINTP • SINTP • SINTATE • for FM • for FM • for hazardous zone • for fem • for fem Learn function of the companies	Product functions / Security	
ACL port/MAC-based ACL port/MAC-based Froadcast/Multicast/Unicast Limiter Broadcast/Multicast/Unicast Limiter Broadcast/Broadcast	Product function	
IEEE 802 1x (radius) Broadcast/Multicast/Unicast Limiter broadcast blocking Protocol / is supported SSH Product functions / time Product functions / time Product functions / time Product function SICLOCK support Protocol / is supported NTP Yes Protocol / is supported NTP Yes Protocol / is supported NTP Yes Standard Frotocol / is supported NTP Standards For FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 For hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D	• ACL - MAC-based	Yes
BroadcastMulticastUnicast Limiter broadcast blocking Protocol / is supported SSH Product functions / time Product functions / time Product functions / time Product function SICLOCK support Protocol / is supported NTP SNTP SNTP Protocol / is supported NTP SNTP SNTP SNTP SNTP Protocol / is supported NTP SNTP SNTP SNTP SNTP SNTP SNTP SNTP	 ACL - port/MAC-based 	Yes
broadcast blocking Protocol / is supported SSH Product functions / time Product function SICLOCK support Protocol / is supported NTP SICLOCK support Protocol / is supported NTP SNTP Standards. specifications, approvals Standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for safety / from CSA and UL for hazardous zone / from CSA and UL for hazardous zone / from CSA and UL for or mitted interference / FM 61000-6-4 (Class A) for or emitted interference / FM 61000-6-2 Standards. specifications, approvals / CE Certificate of suitability / CE marking / Yes Standards. specifications, approvals / other Certificate of suitability / CE marking / Yes Standards. specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) / Yes Bureau Veritas (BV) / Yes Det Norske Veritas (DNV) Poet Norske Veritas (DNV) Poet Norske Veritas (DNV) Poet Norske Veritas (DNV)	• IEEE 802.1x (radius)	Yes
Protocol / is supported SSH Product functions / time Product function SICLOCK support Protocol / is supported NTP SNTP Yes Standards, specifications, approvals for hazardous zone for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 FM3611: Class 1, Divison 2, Group IIC T4 FM3611: Clas	 Broadcast/Multicast/Unicast Limiter 	Yes
Product functions / time Product function • SICLOCK support Protocol / is supported • NTP • SNTP Standards, specifications, approvals Standard • for FM • for hazardous zone • for hazardous zone • for safety / from CSA and UL • for emitted interference • for interference immunity Standards, specifications, approvals / CE Certificate of suitability / CE marking * CE-Tick • KC approval Standards, specifications, approvals / other Certificate of suitability / Emissions, approvals / other Standards, specifications, approvals / other Certificate of suitability / Emissions, approvals / other Certificate of suitability / Emissions, approvals / other Standards, specifications, approvals / other Certificate of suitability / Emissions, approvals / other Certificate of suitability /	 broadcast blocking 	Yes
Product functions / time Product function	Protocol / is supported	
Product function SICLOCK support Protocol / is supported NTP SNTP Yes STandards, specifications, approvals Standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC A, Example 1, Zone 2,	• SSH	Yes
SICLOCK support Protocol / is supported NTP SNTP Yes Standards, specifications, approvals Standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FN 6079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X for safety / from CSA and UL for hazardous zone / from CSA and UL for hazardous zone / from CSA and UL for enitted interference for interference immunity FN 61000-6-4 (Class A) FN 61000-6-2 (Certificate of suitability / CE marking FN 61000-6-2, EN 61000-6-4 Yes Standards, specifications, approvals / other Certificate of suitability C-Tick KC approval FN 61000-6-2, EN 61000-6-4 Yes Standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Fu real veritas (BV) FN 6000-6-1 FN 6000-6-1 FN 61000-6-1 FN 61000-6-2 FN 61000-6-2 FN 61000-6-4 FN 61000-6-3 FN 61000-6-4 FN 61000-	Product functions / time	
Protocol / is supported NTP SNTP Yes Standard for FM FM Scale FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14.0025X for safety / from CSA and UL FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14.0025X for safety / from CSA and UL FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14.0025X for safety / from CSA and UL FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14.0025X for safety / from CSA and UL FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14 Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14.0025X for safety / from CSA and UL FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 1, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEX 14, Class 11, Zone 2, Group IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx 045 X, IECE	Product function	
NTP	· ·	Yes
Standards, specifications, approvals Standard • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity • for interference immunity Standards, specifications, approvals / CE Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) PM36611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T4, Class 1, Zone 2, REMA HIC T4 GC, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group IIC / T4 EN 61000-6-4 (Class A) EN 61000-6-4 (Class A) EN 61000-6-2 Standards, specifications, approvals / other Certificate of suitability EN 61000-6-2, EN 61000-6-4 Yes Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) Poet Norske Veritas (DNV)	Protocol / is supported	
Standards • for FM • for FM • for hazardous zone • for safety / from CSA and UL • for emitted interference • for interference immunity Standards, specifications, approvals / CE Certificate of suitability / CE marking Cartificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability / CE marking Yes Standards, specifications, approvals / other Certificate of suitability / Yes • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) / Yes • Det Norske Veritas (DNV) No		
Standard • for FM • for hazardous zone • for hazardous zone • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity • for emitted interference immunity • for interference immunity • FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2,	• SNTP	Yes
for FM	Standards, specifications, approvals	
2, Group IIC, T4 • for hazardous zone EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEX DEK 14.0025X • for safety / from CSA and UL • for hazardous zone / from CSA and 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 • for emitted interference • for interference immunity EN 61000-6-4 (Class A) EN 61000-6-2 Standards, specifications, approvals / CE Certificate of suitability / CE marking Yes Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV)	Standard	
KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity EN 61000-6-4 (Class A) • for interference immunity EN 61000-6-2 Standards, specifications, approvals / CE Certificate of suitability / CE marking Yes Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) No	• for FM	
• for hazardous zone / from CSA and UL • for emitted interference • for emitted interference • for interference immunity • For interference immunity Standards, specifications, approvals / CE Certificate of suitability / CE marking Yes Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / other Certificate of suitability • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) No	• for hazardous zone	
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for emitted interference of for interference immunity EN 61000-6-4 (Class A) EN 61000-6-2 Standards, specifications, approvals / CE Certificate of suitability / CE marking Yes Standards, specifications, approvals / other Certificate of suitability EN 61000-6-2, EN 61000-6-4 Yes KC approval Yes Standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) No	• for hazardous zone / from CSA and UL	
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Standards, specifications, approvals / CE Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) Yes No	• for emitted interference	EN 61000-6-4 (Class A)
Certificate of suitability / CE marking Standards, specifications, approvals / other Certificate of suitability • C-Tick • KC approval Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) Yes Yes	• for interference immunity	EN 61000-6-2
Standards, specifications, approvals / other Certificate of suitability		
Certificate of suitability C-Tick KC approval Standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) EN 61000-6-2, EN 61000-6-4 Yes Yes Yes No	Certificate of suitability / CE marking	Yes
C-Tick KC approval Standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Yes No	Standards, specifications, approvals / other	
 KC approval Yes Standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Yes No 	Certificate of suitability	EN 61000-6-2, EN 61000-6-4
Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) No	• C-Tick	Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) No	KC approval	Yes
 American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) No 	Standards, specifications, approvals / marine classification	
(ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) No	Marine classification association	
Det Norske Veritas (DNV) No		Yes
Det Notation Contact (Entry)	Bureau Veritas (BV)	Yes
Germanische Lloyd (GL) No	Det Norske Veritas (DNV)	No
	Germanische Lloyd (GL)	No

• DNV GL Yes

Lloyds Register of Shipping (LRS)

Yes

Nippon Kaiji Kyokai (NK)

Yes

Polski Rejestr Statkow (PRS)
 Yes

Royal Institution of Naval Architects (RINA)

Standards, specifications, approvals / Product conformity

MTBF 22 y

Further information / Internet-Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

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

https://mall.industry.siemens.com

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

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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