# **SIEMENS**

## **Data sheet**

product type designation



SCALANCE XC216 managed Layer 2 IE switch; IEC 62443-4-2 certified; 16x 10/100 Mbps RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

1 71 3	
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45
number of 10/100 Mbit/s RJ45 ports / integrated	
<ul> <li>with securing collar</li> </ul>	16
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
for power supply	1
type of electrical connection	
<ul><li>for operator console</li></ul>	RJ11
<ul><li>for signaling contact</li></ul>	2-pole terminal block
for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
at DC / rated value	24 V
operational current / of the signaling contacts	
<ul><li>at DC / maximum</li></ul>	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	6.6 W
<ul> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.275 A
<ul><li>supply voltage / 1 / rated value</li></ul>	9.6 31.2 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.55 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
ambient conditions	
ambient temperature	

**SCALANCE XC216** 

e- during storage	during operation	-40 +70 °C
relative humidity		
relative humidity at at 2 °C vithout condensation / during operation / maximum. protection dissis IP  design, dimensions and weights  design with 120 mm height 147 mm depth 155 mm net weight 0,8 kg material / of the enclosure fastering method • 35 mm top hat DIN rail mounting Yes • wall mounting Yes • shall mounting Yes • Cacacading in the case of a redundant min / 3 the • Coul Through switching method • Store & Forward switching method • Store & Forwar		
e at 25 °C / without condensation / during operation / maximum / grotection class IP design, diministors and weights design   Compact   width   120 mm   height   147 mm   depth   125 mm   net weight   0.8 kg   material of the enclosure   Polycarbonate (PC-GF10) / pressure die cast aluminum   fastering method   2		10 100 0
maximum protection class IP  design, dimensions and weights  design width 120 mm height 147 mm depth 125 mm net weight 0,8 kg material / of the enclosure Polycer formation of the enclosure Po	•	95 %
design dimensions and weights  design 120 mm  height 147 mm  depth 125 mm  not weight 0.8 kg  material / of the enclosure Pelycarbonate (PC-GF10) / pressure die cast aluminum  fastering method 7 vs  so 35 mm top hat DiN rail mounting 7 vs  so 37-300 rail mounting 8 vs  cassading in the case of a redundant ring / at reconfiguration / los 3 coording to DSCP 7 vs  product feature 7 vs  cut 1 hrough switching method 8 vs or 8 coording to DSCP 7 vs  product function / cos 3 coording to DSCP 7 vs  product function / so 3 coording to DSCP 7 vs  product function / so 3 coording to DSCP 7 vs  cut 1 hrough switching method 8 vs or 8 coording to DSCP 7 vs  cut 1 hrough switching method 9 vs or 9		30 /0
design	protection class IP	IP20
design		
width height 147 mm depth 125 mm   net weight 0.8 kg mm lend 125 mm   net weight 0.3 kg mm lend 125 mm   net weight 0.3 kg mm lend 125 mm   assenting method 125 mm lend 125 mm   assenting method 125 mm lend 125		compact
height   depth   125 mm   12		
depth   125 mm   net weight   0.8 kg   material / of the enclosure   Polycarbonate (PC-GF10) / pressure die cast aluminum   fastening method   35 mm top hat DIN rail mounting   Yes   wall mounting   Yes   S7-300 rail mounting   Yes   Product features, product functions, product components / general   S0   reconfiguration / CoS according to DSCP   Yes   Product function /		
material / of the enclosure		
material / of the enclosure fastering method		
fastening method  3 5 mm top hat DIN rail mounting  ves  wall mounting  S7-300 rail mounting  Yes  \$7-300 rail mounting  Product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of \(^{-0.3}\) ss  cascading in cases of star topology  product function / QoS according to DSCP  Yes  product feature  Cut Through switching method  Yes  Product functions / management, configuration, engineering  product functions / management, configuration, engineering  product functions / management  Yes  MIB support  Yes  MIB support  Yes  MIP server  No  SMTP server  No  Port mirroring  Yes  PROFINET to diagnosis  PROFINET conformity class  B  PROFINET conformity dass  B  PROFINET Conformity dass  B  Product function / switch-managed  Yes  telegram length / for Ethernet / maximum  protocol / is supported  Tittle  Tittle  Yes  HTTP  Yes  BOOTP  No  GMRP  Yes  SMMP Y2  SNMP Y2  SNMMP Y3  Yes  Product function  Yes  ST-1500 rail mounting Yes  Torrel  Yes  ST-1500 rail mounting Yes  Torrel  Yes  SNMP Y2  SNMMP Y3  Yes  ST-1500 rail mounting Yes  Torrel  Yes  SNMP Y2  SNMMP Y3  Yes  SNMP Y2  SNMMP Y3  Yes  SNMP Y2  SNMMP Y3  Yes  SNMMP Y3  Yes  SNMP Y2  SNMMP Y3  Yes  SNMP Y2  SNMMP Y3  Yes		-
* 35 mm top hat DIN rail mounting     * wall mounting     * S7-300 rail mounting     * S7-1500 rail mounting     * S7-1500 rail mounting     * yes  product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\( \sigma \) -0.30-s  cascading in cases of star topology  product function / QoS according to DSCP  product function / QoS according to DSCP  product function / GoS according to DSCP  product functions / management     * Cut Through switching method     * Store & Forward switching method     * Yes      * MB support     * CLI     * Web-based management     * Yes     * MB support     * TRAPs via email     * Yes     * SMTP server     * No     * PROFINET IO diagnosis     * Yes     * PROFINET Conformity class     * B     product function / switch-managed     * Telnet     * HITTP     * Yes     * HITTP     * Yes     * HITTP     * Yes     * HITTP     * Yes     * BOOTP     * No     * GMRP     * Yes     * BOOTP     * No     * SMMP vi     * SMMP vi     * Yes     * SNMP vi     * Yes		1 differentiate (1 d di 10) / procedire die edet diaminam
• wall mounting • \$7-300 rail mounting • \$7-1500 rail mounting  product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of \( \cdot \) \( \cdo \) \( \cdot \) \( \cdot \) \( \cdo \) \( \cdot \) \( \cdo \) \(	č	Yes
S7-300 rail mounting S7-1500 rail mounting Product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of <-0.3/-s cascading in cases of star topology product function / QoS according to DSCP product function / QoS according to DSCP product function / management S100 ves		
• \$7-1500 rail mounting  product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of <-0.3/-s  cascading in cases of star topology  product function / CoS according to DSCP  product function / CoS according to DSCP  product function / SoS according to DSCP  product functions / management	<u> </u>	
product features, product functions, product components / general  cascading in the case of a redundant ring / at reconfiguration time of <-0.3/-s  cascading in cases of star topology product function / QoS according to DSCP  Product feature  • Cut Through switching method • Store & Forward switching method Product functions / management, configuration, engineering  product functions / management, configuration, engineering  product functions / was a configuration, engineering  product functions / was a configuration, engineering  product functions / Yes  • CLI • Web-based management • Yes • MIB support • TRAPs via email • configuration with STEP 7 • RMON • SMTP server • No • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis  PROFINET To diagnosis  PROFINET conformity class  product function / switch-managed • Tellnet • HTTP • Yes • HTTP • HTTP • Yes • HTTP • GBOOTP • ON • GMRP • OCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • Yes • S		
cascading in the case of a redundant ring / at reconfiguration time of <1-0.3\> cascading in cases of star topology product function / QoS according to DSCP product feature  - CLI Through switching method - Store & Forward switching method - CLI - Web-based management, configuration, engineering product function - CLI - Web-based management - Yes - MIB support - TRAPs via email - configuration with STEP 7 - RMON - SMTP server - port mirroring - COS - PROFINET IO diagnosis - PROFINET conformity class - product function / switch-managed - telegram length / for Ethernet / maximum - protocol / is supported - HTTP - HTTP - Yes - HTTP - Yes - HTTP - Yes - HTTP - GBOOTP - No - GMRP - SMMP v1 - SMMP v2 - SMMP v3 - Yes - Yes - SMMP v3 - Yes		1.11
reconfiguration time of <\-0.3\-s cascading in cases of star topology product function / QoS according to DSCP product freature  • Cut Through switching method • Store & Forward switching method • Store & Forward switching method • CLI  record functions / management, configuration, engineering product functions / management • CLI  web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RNON • SMTP server • port mirroring • multiport mirroring • COS • PROFINET ID diagnosis PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum  • Telnet • Titte • Titte • CMRP • SMRP • OCP • Yes • SMRP • COS • SMRP • COS •		
product function / QoS according to DSCP product feature  Cut Through switching method Store & Forward switching method Store & Forward switching method CLI Pres  **CLI **Web-based management **CLI **Web-based management **CLI **Wes **MIB support **TRAPs via email **Configuration with STEP 7 **RMON **SMTP server **Port mirroring **Post multiport mirroring **Post multiport mirroring **COS **PROFINET IO diagnosis **PROFINET conformity class **PROFINET conformity class **PROFINET conformity class **PROFINET conformity class **Product function / switch-managed **Itelegram length / for Ethernet / maximum **Pres **PITTP **Pres **PITTP *	reconfiguration time of <\~0.3\~s	
product feature  • Cut Through switching method • Store & Forward switching method • Store & Forward switching method • Cut  roduct functions / management, configuration, engineering  product function • Cut • Web-based management • Milb support • Milb support • TRAPs via email • configuration with STEP 7 • RMON • SMTP server • No • SMTP server • No • SMTP server • Mo • multiport mirroring • Yes • PROFINET IO diagnosis • Yes  PROFINET conformity class  product function / switch-managed • telegram length / for Ethernet / maximum  protocol / is supported • Telnet • HTTP • Yes • HTTP • Yes • HTTP • Yes • HTTP • Yes • BOOTP • No • GMRP • DCP • LLLDP • Yes • EtherNet/IP • SNMP v2 • SNMP v3 • SNMP v2 • SNMP v3 • Yes • SNMP v3 • SNMP v3 • Yes • SNMP v3 • Yes • SNMP v3 • SNMP v3 • SNMP v3 • SNMP v3 • Yes • SNMP v3 • SNMP v3 • Yes		
Cut Through switching method Store & Forward switching method Yes  product functions / management, configuration, engineering  product function CLI  Wes web-based management Yes MIB support TRAPs via email configuration with STEP 7 Yes RMON SMTP server No SMTP server port mirroring Yes COS Yes PROFINET IO diagnosis Yes  PROFINET Conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported  Telnet HTTP HTTP Yes HTTPS Yes BOOTP BOOTP SMRP Yes SNMP Y SNMP V2 SNMP v3 Yes SNMP v3  Yes SNMP v3  Yes SNMP v3  Yes  Yes SNMP v3  Yes  Yes SNMP v3  Yes SNMP v3  Yes  Yes SNMP v3  Yes	product function / QoS according to DSCP	Yes
orduct functions / management, configuration, engineering  product function  ○ CLI  ○ web-based management  ○ MB support  ○ TRAPs via email  ○ configuration with STEP 7  ○ RMON  ○ SMTP server  ○ port mirroring  ○ COS  ○ PROFINET IO diagnosis  PROFINET conformity class  □ product function / switch-managed  1 elegram length / for Ethernet / maximum  ○ Telnet  ○ Tel	product feature	
product function / management, configuration, engineering  product function		No
Product function	Store & Forward switching method	Yes
CLI     web-based management     Yes     MIB support     Yes     TRAPs via email     configuration with STEP 7     RMON     SMTP server     No     SMTP server     No     multiport mirroring     Yes     PROFINET IO diagnosis     PROFINET conformity class     product function / switch-managed     telegram length / for Ethernet / maximum     Telnet     Telnet     HTTP     Yes     HTTP     HOSO     FEF     BOOTP     BOOTP     BOOTP     SMMP    Yes     EtherNet/IP     SNMP    Y2     SNMP    X2	product functions / management, configuration, engineeri	ng
web-based management     MIB support     TRAPs via email     configuration with STEP 7     RMON     SMTP server     port mirroring     ves     multiport mirroring     ves     PROFINET IO diagnosis     PROFINET conformity class     PROFINET conformity class     Product function / switch-managed     telegram length / for Ethernet / maximum     Telnet     Telnet     HTTP     HTTPS     Yes     HTTPS     Yes     FFTP     BOOTP     BOOTP     BOOTP     SMMP     SNMP V3     SNMP V3     SNMP V3     Yes     SNMP V3	product function	
<ul> <li>MIB support</li> <li>TRAPs via email</li> <li>configuration with STEP 7</li> <li>RMON</li> <li>SMTP server</li> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>PROFINET IO diagnosis</li> <li>PROFINET IO diagnosis</li> <li>Yes</li> <li>PROFINET Conformity class</li> <li>B</li> <li>Product function / switch-managed</li> <li>telegram length / for Ethernet / maximum</li> <li>Telnet</li> <li>HTTP</li> <li>HTTP</li> <li>HTTP</li> <li>HTTPS</li> <li>HTTP</li> <li>BOOTP</li> <li>BOOTP<td>• CLI</td><td>Yes</td></li></ul>	• CLI	Yes
	<ul> <li>web-based management</li> </ul>	Yes
	<ul> <li>MIB support</li> </ul>	Yes
	<ul> <li>TRAPs via email</li> </ul>	Yes
	<ul><li>configuration with STEP 7</li></ul>	Yes
<ul> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>Yes</li> <li>PROFINET IO diagnosis</li> <li>Yes</li> <li>PROFINET conformity class</li> <li>B</li> <li>product function / switch-managed</li> <li>telegram length / for Ethernet / maximum</li> <li>1632 byte</li> <li>protocol / is supported</li> <li>Telnet</li> <li>HTTP</li> <li>HTTP</li> <li>HTTPS</li> <li>Yes</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> </ul>	• RMON	Yes
<ul> <li>multiport mirroring</li> <li>CoS</li> <li>PROFINET IO diagnosis</li> <li>Yes</li> <li>PROFINET conformity class</li> <li>B</li> <li>product function / switch-managed</li> <li>telegram length / for Ethernet / maximum</li> <li>1632 byte</li> <li>protocol / is supported</li> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>HTTPS</li> <li>Yes</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>SNMP v3</li> <li>Yes</li> </ul>	SMTP server	No
• CoS • PROFINET IO diagnosis PROFINET conformity class  product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported  • Telnet • Telnet • HTTP • HTTPS • HTTPS • TFTP • BOOTP • BOOTP • BOOTP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • PROFINET IO diagnosis Yes  B  ### 1632 byte  ##	<ul> <li>port mirroring</li> </ul>	Yes
● PROFINET IO diagnosis         Yes           PROFINET conformity class         B           product function / switch-managed         Yes           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • TFTP         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes	<ul> <li>multiport mirroring</li> </ul>	Yes
PROFINET conformity class         B           product function / switch-managed         Yes           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes	• CoS	Yes
product function / switch-managed         Yes           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes	<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • TFTP         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes	PROFINET conformity class	В
protocol / is supported           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • TFTP         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes	product function / switch-managed	Yes
<ul> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>Yes</li> <li>TFTP</li> <li>BOOTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>SNMP v3</li> <li>Yes</li> </ul>	telegram length / for Ethernet / maximum	1632 byte
<ul> <li>HTTP</li> <li>HTTPS</li> <li>HTTPS</li> <li>Yes</li> <li>TFTP</li> <li>BOOTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li></ul>	protocol / is supported	
<ul> <li>HTTPS</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> </ul>	• Telnet	Yes
<ul> <li>HTTPS</li> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> </ul>	• HTTP	Yes
<ul> <li>TFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> </ul>		
<ul> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	• TFTP	Yes
<ul> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	• BOOTP	No
<ul> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>		
<ul> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>		Yes
<ul> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	• LLDP	
<ul> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes <ul> <li>Yes</li> </ul> </li> </ul>		
<ul><li>SNMP v2</li><li>SNMP v3</li><li>Yes</li></ul>	• SNMP v1	Yes
• SNMP v3 Yes		
7t. O.1 /		
identification & maintenance function		

• I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	V.
• port diagnostics	Yes
statistics Packet Size	Yes
statistics packet type	Yes
error statistics	Yes
SysLog	Yes
product functions / VLAN	
product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	No
VLAN - IP-based	No
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
DHCP server	Yes
DHCP client	Yes
<ul> <li>DHCP Option 82</li> </ul>	Yes
<ul> <li>DHCP Option 66</li> </ul>	Yes
<ul> <li>DHCP Option 67</li> </ul>	Yes
product functions / redundancy	
product function	
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	Yes
<ul><li>ring redundancy</li></ul>	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<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>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
<ul> <li>of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>	Yes
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul><li>redundancy procedure RSTP+</li></ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
passive listening	Yes
protocol / is supported	
• LACP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>broadcast/multicast/unicast limiter</li> </ul>	Yes
broadcast blocking	Yes
protocol / is supported	

SSI.  Yes  product function  * GICL COK support  * NTP-client  * NTP-client  * NTP-client  * NTP-product function of protect of its apported  * NTP-client  * Yes  * Settlemand of the protect of its apportation  * product function of configuration in RUN via CIRPH-CIR  * Standards specifications, approvals / CE  * Outflicate of suitability / CE marking  * In security for inclusified automation systems / according to ECC 24444-224119  * NTEP-client  * Outflicate of suitability / CE marking  * of ref.MC interference emission  * of ref.MC	• SSH	Yes
product functions / time product functions   SIGLOCK support		
product Anceton  SICLOCK support  SITP client  Yes  NTP-client  Yes  SNITP client  Yes  SNITP client  Yes  SNITP supported  NTP  SNITP  SNITP  Yes  Standards, specifications, approvals  IT accurity for industrial automation systems / according to IEC 62449-42-2079  MTSP  ATEX  Yes  Standards, specifications, approvals / CE  curtificate of suitability / CE marking  * for immunity to EMC  * errificate of suitability / CE marking  * for immunity to EMC  * errificate of suitability / CE marking  * for immunity to EMC  * errificate of suitability / CE marking  * for ATEX / as marking  * for ATEX / as cartificate  * Cord / Far / as cartificate  * COC / for hazerdous zone according to GB standard  * for CLUs Hazzoor / as marking  * for CLUs Hazzoor / as File Nr.  * File Yes  * Yes, IEC 80079-0, IEC 80079-15  EXAMIT 4 Ge  * EXAMIT		165
SICLOCK support   Yes		
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■ SNTP client protocol / is supported  ♦ NTP  ♦ SNTP  SNTP  ▼ STAND AND AND AND AND AND AND AND AND AND	• •	
protocol / is supported  NTP  NTP  NTP  NTP  Yes  SNITTP  Yes  SNITTP  Yes  SNITTP  Yes  SNITTP  Yes  SNITTP  Yes  SNITTP  Yes  Standards, specifications, approvals  IT security for inclustrial automation systems / according to EC 62443-422019  MTBP  ATBP  ATBP  ATBP  Yes  Standards, specifications, approvals / CE  certificate of suitability / CE marking product conformity / according to EMC-guideline slandard  • for EMC interference emission • for femmunity to EMC  entificate of suitability / RehB conformity  • for EMC interference emission • for immunity in EMC  entificate of suitability / RehB conformity  • ATBC  • for EMC interference emission • for intermunity according to EMC-guideline slandards, specifications, approvals / hazardous environments  standards, specifications, approvals / hazardous environments  Standards, specifications, approvals / hazardous environments  Tentificate of suitability / RehB conformity  • ATBC  Yes, EN 60079-0, EN 60079-15  II 3 G Ex nA II T4 Gc  KEMA 07ATEX0145 X  Yes, EN 60079-0, EN 60079-15  II 3 G Ex nA II T4 Gc  KEMA 07ATEX0145 X  Yes  • for ECEx / as certificate • CCC / for hazardous zone according to GB slandard • for cllus HazLoo / as marking • for fel LCEx / as certificate • CCC / for hazardous zone according to GB slandard • for cllus HazLoo / as marking • for FM / as marking		
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system modification during operation product function / configuration in RUN via CiR/H-CiR product conformity / coording to EEC 62443-4-22019		Yes
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IT security for industrial automation systems / according to Etc 62443-42.2019  MTBF  48 y  standards, specifications, approvals / CE  certificate of suitability / CE marking	system modification during operation	
IT security for industrial automation systems / according to EEC 82443-4-2.2019  MTBF  \$tandards, specifications, approvals / CE  certificate of suitability / CE marking product conformity / according to EMC-guideline  standard  • for EMC interference emission • for immunity to EMC  certificate of suitability / RoHS conformity  • for EMC interference emission • for immunity to EMC  certificate of suitability / RoHS conformity  • ATEX  certificate of suitability • ATEX  • for ATEX / as cartificate • for ATEX / as cartificate • for IECEX / as marking • for ATEX / as cartificate • for IECEX / as marking • for IECEX / as marking • for CULus HazLoc / as marking • for CULus HazLoc / as File Nr. • FN registration • for FM / as marking • for Uther interference emission • for FM / as marking • for Uther interference emission • for FM / as marking • for Uther interference emission • for IF M / as marking • for Uther interference emission • for IF M / as marking • for Uther interference emission • for Uther interference emission • for IF M / as marking • for Uther interference emission • for IF M / as marking • for Uther interference emission • for IF M / as cartificate  standards, specifications, approvals / other  certificate of suitability • rallway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for Uth 69050-1 / as File Nr. • For Other interference emission • American Bureau of Shipping Europe Ltd. (ABS) • French marine dassification society (BV) • Yes • DNV GL • Norean Register of Shipping (LRS) • Lloyds Register of Shipping (LRS) • Podski Rejest Statkow (PRS) • Royal Institution of Naval Architects (RINA)	product function / configuration in RUN via CiR/H-CiR	Yes
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standards, specifications, approvals / CE certificate of suitability / CE marking product conformity / according to EMC-guideline standard • for EMC interference emission • for immunity to EMC certificate of suitability / ROHS conformity  **Standards**, specifications, approvals / hazardous environments  certificate of suitability • ATEX • for ATEX / as marking • for ATEX / as certificate • IECEX • for IECEX / as marking • for IECEX / as marking • for ICCIS / as certificate • CCC / for hazardous zone according to GB standard • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as marking • for FM / as marking • for ICULus HazLoc / as File Nr. • FM registration • for FM / as marking • for ICULus HazLoc / as File Nr. • FM registration • for FM / as marking • for ICULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM /		Yes
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certificate of suitability  ATEX  for ATEX / as marking  for ATEX / as marking  for ATEX / as certificate  ECEX  for IECEx / so smarking  for IECEx / as marking  for IECEx / as certificate  CCC / for hazardous zone according to GB standard  for cULus HazLoc / as marking  for cULus HazLoc / as File Nr.  FM registration  for FM / as marking  for FM / as a sertificate  FM16US0205X  CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4  E240480 (NWHP, NWHP7)  FM dass 3601:2001, FM class 3810:2005, ANSI/SA-61010-1:2004  CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C  FM6 FM / as certificate  FM16US0205X  Standards, specifications, approvals / other  certificate of suitability  railway application in accordance with EN 50121-4  Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  FM6 FM CL 61010-2-201 / as File Nr.  FM7 FM CL 61010-2-201 / as File Nr.  FM6 FM CL 61010-2-201 / as File Nr.  FM7 FM CL 61010-2-201 / as File Nr.  FM8		
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<ul> <li>for cULus HazLoc / as marking</li> <li>for cULus HazLoc / as File Nr.</li> <li>FM registration</li> <li>for FM / as marking</li> <li>for FM / as marking</li> <li>for FM / as marking</li> <li>for FM / as certificate</li> <li>standards, specifications, approvals / other</li> <li>certificate of suitability</li> <li>railway application in accordance with EN 50121-4</li> <li>Regulatory Compliance Mark (RCM)</li> <li>for UL 61010-2-201 / as File Nr.</li> <li>E85972 (NRAQ, NRAQ7)</li> <li>for UL 60950-1 / as File Nr.</li> <li>EAC approval</li> <li>standards, specifications, approvals / marine classification</li> </ul> Marine classification association <ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Pes</li> <li>Lloyds Register of Shipping (KRS)</li> <li>Pes</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	<ul> <li>for IECEx / as certificate</li> </ul>	IECEx DEK 14.0025X
for cULus HazLoc / as File Nr.     FM registration     FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004     FM registration     FM registration registration     FM registration registration     FM registration registration registration     FM registration regis	<ul> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes
FM registration Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004  for FM / as marking CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  for FM / as certificate  standards, specifications, approvals / other  certificate of suitability  railway application in accordance with EN 50121-4 Regulatory Compliance Mark (RCM) for UL 61010-2-201 / as File Nr. for UL 60950-1 / as File Nr. E85972 (NRAQ, NRAQ7) Fac Approval  standards, specifications, approvals / marine classification  Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (KRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA)  accessories	<ul><li>for cULus HazLoc / as marking</li></ul>	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4
ANSI/ISA-61010-1:2004  • for FM / as marking  • for FM / as certificate  • for FM / as certificate  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • E85972 (NRAQ, NRAQ7)  • for UL 60950-1 / as File Nr.  • EAC approval  Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)	<ul><li>for cULus HazLoc / as File Nr.</li></ul>	E240480 (NWHP, NWHP7)
• for FM / as certificate FM16US0205X  standards, specifications, approvals / other  certificate of suitability • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 61010-2-201 / as File Nr. • for UL 60950-1 / as File Nr. • For UL 60950-1 / as File Nr. • E85972 (NRAQ, NRAQ7) • EAC approval  standards, specifications, approvals / marine classification  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)  accessories	FM registration	
standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Test  *Yes  **Pes  **Test  **Test  *Yes  **Test  **Tes	● for FM / as marking	
certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Yes**  **Creation**  Yes**  **Yes**  **Yes**  **Yes**  **Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Yes**  **Creation**  Yes**  **Yes**  **Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Yes**  **Creation**  Yes**  **Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Yes**  **Creation**  Yes**  **Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Yes**  **Creation**  **Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Total Yes**  **Total Yes**	for FM / as certificate	FM16US0205X
railway application in accordance with EN 50121-4     Regulatory Compliance Mark (RCM)     for UL 61010-2-201 / as File Nr.     for UL 60950-1 / as File Nr.     EB5972 (NRAQ, NRAQ7)     EAC approval      Standards, specifications, approvals / marine classification  Marine classification association      American Bureau of Shipping Europe Ltd. (ABS)     French marine classification society (BV)     DNV GL     Korean Register of Shipping (KRS)     Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (NK)     Polski Rejestr Statkow (PRS)     Royal Institution of Naval Architects (RINA)      res	standards, specifications, approvals / other	
Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  for UL 60950-1 / as File Nr.  E115352 (NWGQ, NWGQ7)  EAC approval  Yes  standards, specifications, approvals / marine classification  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  DNV GL  Korean Register of Shipping (KRS)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (NK)  Polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  **Resource Residence Market (RINA)  **Yes**  **Post (Resource Market)  **Pes**	certificate of suitability	
<ul> <li>for UL 61010-2-201 / as File Nr.</li> <li>for UL 60950-1 / as File Nr.</li> <li>E115352 (NWGQ, NWGQT)</li> <li>EAC approval</li> <li>yes</li> <li>standards, specifications, approvals / marine classification</li> <li>Marine classification association</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Korean Register of Shipping (LRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> <li>accessories</li> </ul>	<ul> <li>railway application in accordance with EN 50121-4</li> </ul>	Yes
for UL 60950-1 / as File Nr.         EAC approval  standards, specifications, approvals / marine classification  Marine classification association          American Bureau of Shipping Europe Ltd. (ABS)         French marine classification society (BV)         DNV GL         Korean Register of Shipping (KRS)         Lloyds Register of Shipping (LRS)         Nippon Kaiji Kyokai (NK)         Polski Rejestr Statkow (PRS)         Royal Institution of Naval Architects (RINA)  E115352 (NWGQ, NWGQ7)  Yes  E115352 (NWGQ, NWGQ7)  Yes  Yes  Yes  Yes  Yes  Pes  Ryes  Ryes  Ryes  Royal Institution of Naval Architects (RINA)  Yes  accessories	<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
• EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS) Yes  • French marine classification society (BV) Yes  • DNV GL  • Korean Register of Shipping (KRS) Yes  • Lloyds Register of Shipping (LRS) Yes  • Nippon Kaiji Kyokai (NK) Yes  • Polski Rejestr Statkow (PRS) Yes  • Royal Institution of Naval Architects (RINA) Yes  accessories	• for UL 61010-2-201 / as File Nr.	E85972 (NRAQ, NRAQ7)
Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS) Yes  • French marine classification society (BV) Yes  • DNV GL Yes  • Korean Register of Shipping (KRS) Yes  • Lloyds Register of Shipping (LRS) Yes  • Nippon Kaiji Kyokai (NK) Yes  • Polski Rejestr Statkow (PRS) Yes  • Royal Institution of Naval Architects (RINA) Yes  accessories	● for UL 60950-1 / as File Nr.	E115352 (NWGQ, NWGQ7)
Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  accessories	<ul> <li>EAC approval</li> </ul>	Yes
Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  accessories	standards, specifications, approvals / marine classification	n
<ul> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories	Marine classification association	
<ul> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories	American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories Yes Yes Yes		
<ul> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories		
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories		
<ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> <li>accessories</li> </ul>		
<ul> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> <li>accessories</li> </ul>		
Royal Institution of Naval Architects (RINA)  Yes  accessories		
accessories	• • • • • • • • • • • • • • • • • • • •	
		162
product extension / optional / C-PLUG Yes		V
	product extension / optional / C-PLUG	Yes

### further information / internet-Links

#### Internet-Link

• 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/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

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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