## 6GK5310-0FA10-2AA3

**Data sheet** 



SCALANCE X310, managed plus IE switch, 3x 10/100/1000 Mbit/ and 7x 10/100 Mbit/s RJ45 ports LED diagnostics, error signaling Contact with select/set button, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery

product type designation	SCALANCE X310
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	10
number of 10/100 Mbit/s RJ45 ports / integrated	
with securing collar	7
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
with securing collar	3
interfaces / other	
number of electrical connections	
<ul> <li>for signaling contact</li> </ul>	1
<ul><li>for power supply</li></ul>	1
type of electrical connection	
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul><li>for power supply</li></ul>	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 supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	9.6 W
<ul> <li>supply voltage / 1 / rated value</li> </ul>	18 32 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.4 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	

during operation	-40 +60 °C
during operation     during storage	-40 +70 °C
during storage     during transport	-40 +70 °C
relative humidity	
at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP30
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	123 mm
net weight	1.4 kg
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting
•	rail is not permitted.
<ul> <li>19-inch installation</li> </ul>	No
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
<ul> <li>S7-300 rail mounting</li> </ul>	Yes
S7-1500 rail mounting	No
product features, product functions, product components	/ general
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	ng
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
<ul> <li>MIB support</li> </ul>	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
<ul><li>port mirroring</li></ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
<ul><li>◆ FTP</li><li>◆ BOOTP</li></ul>	Yes Yes
• BOOTP • GMRP	Yes
DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
port diagnostics	Yes
+ port diagnostics	100

statistics packet type     error statistics     SysLog     Yes     SysLog     Yes  product functions / VLAN  product function     VLAN - port based     VLAN - protocol-based     VLAN - Myammic     Yes     number of VLANs / maximum     Z65     number of VLANs / maximum     Z65     number of VLANs - Aynamic / maximum     Protocol / is supported / SVRP  product functions / DHCP  product function     DHCP Option 82     Yes     DHCP Option 82     Pes     DHCP Option 66     Yes     DHCP Option 67     Yes  product functions / redundancy  product functions / redundancy Protocol (HRP)     Nes     Nes    Pesed redundancy Protocol (HRP)     Nes     Nes    Pesed redundancy protocol (HRP) with standby redundancy manager      Nes    Redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)  product function     *media redundancy protocol (MRP) with redundancy manager      redundancy procedure STP     Redundancy procedure RSTP     redundancy procedure	<ul><li> statistics packet type</li><li> error statistics</li><li> SysLog</li></ul>	v.
	<ul><li>error statistics</li><li>SysLog</li></ul>	Yes
• SysLog  product functions / VLAN  product function  • VLAN - prot based • VLAN - prot based • VLAN - Port based • VLAN - Port based • VLAN - Postaged • VLAN - Postaged • VLAN - Postaged • VLAN - Postaged • VLAN dynamic  number of VLANs - dynamic / maximum 255  protocol / is supported / GVRP  product functions / DHCP  product function • DHCP client • DHCP Option 82 • DHCP Option 82 • DHCP Option 66 • Pes • DHCP Option 67  Product function • fing redundancy  product function • fing redundancy Protocol (HRP) • high Speed Redundancy Protocol (HRP) with redundancy  protocot / is supported / Media Redundancy Protocol (HRP) with redundancy  protocot / is supported / Media Redundancy Protocol (MRP)  protocot / is supported / Media Redundancy Protocol (MRP)  product function • media redundancy protocol (MRP) with redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  protocot / is supported / Media Redundancy Protocol (MRP)  protocol / is supported / Media Redundancy Protocol (MRP)  protocol / is supported / Media Redundancy Protocol (MRP)  protocol / is supported / Media Redundancy Protocol (MRP)  **Pes • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • redundancy procedure MSTP • resundancy procedure MSTP • passive listening  **Pes  **Protocol / is supported • STP/RSTP • Yes • STP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • RSTP big network support • Yes • RSTP • Yes • RSTP • RSTP big network support • Yes	SysLog	
product function  • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN   IP-based • VES    IP-BASED   IP-BASED   IP-BASED   IP-BASED		
product function  VLAN - port based  VLAN - protocol-based  No  VLAN - protocol-based  No  VLAN - Protocol-based  No  VLAN - Protocol-based  No  VLAN dynamic  Pes  number of VLANs - dynamic / maximum  255  number of VLANs - dynamic / maximum  255  protocol / is supported / GVRP  Product function  DHCP client  DHCP client  DHCP Option 82  Pes  DHCP Option 66  Pes  DHCP Option 67  Product functions / redundancy  Product functions / redundancy  product function / redundancy Protocol (HRP) with redundancy manager  No ing redundancy protocol (HRP) with redundancy manager  No ing redundancy Protocol (HRP) with redundancy manager  No ing redundancy protocol (MRP) with redundancy manager  No ing redundancy protocol (MRP) with redundancy manager  No ing redundancy protocol (MRP) with redundancy manager  Protocol / is supported / Media Redundancy Protocol  Redundancy procedure RSTP  Pes  Passive listening  Protocol / is supported  STP/RSTP  STP  Nes  STP  Nes  STP  Nes  STP  Nes  STP  Pes  STP  Pes  STP  Pes  STP  Pes  STP  Nes  STP big network support  Pes  NaTP  Pes  STP big network support  Pes  Pes  Pes  Pes  STP big network support  Pes  Pes  Pes  Pes  STP big network support  Pes  Pes  Pes  Pes  Pes  STP big network support  Pes  Pes  Pes  Pes  Pes  Pes  Pes  Pe	product tunctions / VI AN	Yes
VLAN - protocol-based No VLAN - Protocol-based No VLAN I-P-based No VLAN I-P-based No VLAN I-P-based Yes VLAN dynamic Yes number of VLANs' maximum 255 protocol / is supported / GVRP Yes product function OHCP client Yes DHCP Option 82 Yes DHCP Option 84 Yes DHCP Option 66 Yes DHCP Option 67 Yes  Product function ** Inigh Speed Redundancy Protocol (HRP) Yes inigh speed redundancy protocol (HRP) With redundancy manager Inigh Speed redundancy Protocol (HRP) With redundancy manager  Protocol / is supported / Media Redundancy Protocol (MRP)  Product function  ** Redundancy Media Redundancy Protocol (MRP) Yes  ** Redundancy procedure STP Yes  ** Redundancy procedure STP Yes  ** Protocol / is supported  ** ** ** ** ** ** ** ** ** ** ** ** *		
VLAN - IP-based No VLAN dynamic Yes number of VLANs / maximum 255 number of VLANs / suximum 255 protocol / is supported / GVRP Yes  DHCP Option 66 DHCP Option 67 DHCP Option 67 Product functions / Pressure of the first of the	·	
VLAN - IP-based  VLAN dynamic  Inumber of VLANs - dynamic / maximum  Z55  number of VLANs - dynamic / maximum  Z55  protocol / is supported / GVRP  Product functions / DHCP  Product function  DHCP Option 82  DHCP Option 66  Yes  DHCP Option 67  Yes  Product function  ing redundancy  Product function  ing redundancy  Product function  ing redundancy  Product function  ing redundancy Protocol (HRP)  ingh speed redundancy protocol (HRP) with redundancy manager  ingh speed redundancy Protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol  (MRP)  media redundancy protocol (MRP) with redundancy  redundancy procedure STP  redundancy procedure STP  redundancy procedure RSTP  redundancy procedure MSTP  spassive listening  Yes  RSTP  RSTP  RSTP  Yes  RSTP  RSTP  Yes  LACP  Yes  Yes  LACP  Yes  Yes  Yes  Yes  Yes  LACP		
• VLAN dynamic Yes number of VLANs / maximum 255 protocol / is supported / GVRP Yes product functions / DHCP product function		
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 function / Pedundancy  product function / Pedundancy  product function / Pedundancy  product function / Pedundancy  product function / Pedundancy / Yes • High Speed Redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) With redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / (MRP)  protocol / is supported / Media Redundancy Protocol (MRP)  product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP Yes • redundancy procedure MSTP Yes • redundancy procedure MSTP Yes • passive listening  protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP • RSTP • RSTP • RSTP Yes • RSTP • RSTP ign network support • Yes • LACP		
number of VLANs - dynamic / maximum protocol / is supported / GVRP  Product functions  DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 67 Product function  in gradundancy  product function  Product function  Product functions / redundancy  product function Product functio		
protocol / is supported / GVRP  product functions / DHCP product function  • DHCP client  • DHCP Option 82  • DHCP Option 66 • Yes • DHCP Option 67  product functions  • orign redundancy  product function  • ring redundancy  product function  • ring redundancy Protocol (HRP)  • high Speed Redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP		
product function / DHCP  product function		
product function  • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 • Yes  product functions / redundancy  product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy • Protocol / is supported / Media Redundancy Protocol (MRP)  product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • passive listening  protocol / is supported • STP/RSTP • STP • STP • RSTP big network support • LACP		Tes
DHCP client     DHCP Option 82     DHCP Option 66     DHCP Option 67     Yes     DHCP Option 67   product functions / redundancy  product function     inig redundancy     inig redundancy Protocol (HRP)     inigh speed redundancy Protocol (HRP) with redundancy manager     inigh speed redundancy protocol (HRP) with standby redundancy redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     inigh speed redundancy Protocol (MRP) with redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     inight speed redundancy protocol (MRP) with redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     inight speed redundancy protocol (MRP) with redundancy yes  manager     inight speed redundancy protocol (MRP) with redundancy yes  protocol / is supported / Yes  protocol / is supported      inight speed redundancy protocol (MRP) with redundancy yes  protocol / is supported      inight speed redundancy yes  protocol / is protocol yes  yes  protocol / yes  protocol / is protocol yes  yes  yes  protocol / is pr		
DHCP Option 82     DHCP Option 66     Yes     DHCP Option 67     Yes  product functions / redundancy  product function     inig redundancy     High Speed Redundancy Protocol (HRP)    Yes     high speed redundancy protocol (HRP) with redundancy manager     high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     media redundancy protocol (MRP) with redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     media redundancy protocol (MRP) with redundancy manager     redundancy procedure STP     redundancy procedure RSTP     redundancy procedure MSTP     passive listening     Yes  protocol / is supported     STP/RSTP     STP     RSTP     MSTP     RSTP     MSTP     RSTP     Yes     RSTP     Yes     RSTP     Yes     RSTP     Yes     RSTP     Yes     RSTP     Yes     RSTP big network support     Yes     LACP	·	V
DHCP Option 66     DHCP Option 67     Yes  product function     ing redundancy     High Speed Redundancy Protocol (HRP)     high speed redundancy protocol (HRP) with redundancy manager     high speed redundancy protocol (HRP) with standby redundancy manager     high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)  product function     media redundancy protocol (MRP) with redundancy manager     redundancy procedure STP     redundancy procedure RSTP     redundancy procedure MSTP     passive listening     yes  protocol / is supported     STP/RSTP     STP     RSTP     NSTP     NSTP     NSTP     NSTP     NSTP     NSTP     NSTP     RSTP big network support     LACP  Product function  Yes  Yes  Yes  Yes  NSTP     Yes  NSTP     Yes  LACP  Yes		
DHCP Option 67      product functions / redundancy  product function		
product function / redundancy product function • ring redundancy • High Speed Redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)  product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • passive listening  protocol / is supported • STP/RSTP • STP • RSTP • RSTP • MSTP • MSTP • RSTP • RSTP • RSTP • RSTP Yes		
product function  • ring redundancy  • High Speed Redundancy Protocol (HRP) Yes  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • STP  • RSTP  • MSTP  • RSTP big network support  • RSTP big network support  Yes  Yes  Yes  Yes  • RSTP big network support  Yes  Yes  Yes  Yes  • LACP		Tes
<ul> <li>ring redundancy</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>product function</li> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>yes</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul>		
High Speed Redundancy Protocol (HRP)     high speed redundancy protocol (HRP) with redundancy manager     high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function     media redundancy protocol (MRP) with redundancy manager     redundancy procedure STP     redundancy procedure RSTP     redundancy procedure RSTP     redundancy procedure MSTP     passive listening  protocol / is supported      STP/RSTP     STP     RSTP     RSTP     MSTP     RSTP big network support     LACP  Protocol (HRP) with redundby  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	·	Voc
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>product function</li> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul>		
redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • MSTP  • MSTP  • RSTP big network support  • LACP  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>product function</li> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul>		res
protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	<ul> <li>high speed redundancy protocol (HRP) with standby</li> </ul>	Yes
product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP big network support  • LACP	protocol / is supported / Media Redundancy Protocol	Yes
manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • MSTP  • RSTP big network support  • LACP  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		
<ul> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>yes</li> </ul> protocol / is supported <ul> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> </ul>		Yes
<ul> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>yes</li> </ul> protocol / is supported <ul> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes <ul> <li>Yes</li> </ul> </li> </ul>	<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>passive listening</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>Yes</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</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>		Yes
protocol / is supported  • STP/RSTP  • STP  • RSTP  • MSTP  • MSTP  • RSTP big network support  • LACP  Pyes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	<ul><li>passive listening</li></ul>	Yes
<ul> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	protocol / is supported	
<ul> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	• STP/RSTP	Yes
<ul> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	• STP	Yes
<ul><li>RSTP big network support</li><li>LACP</li><li>Yes</li></ul>	• RSTP	Yes
• LACP Yes	• MSTP	Yes
	<ul> <li>RSTP big network support</li> </ul>	
		Yes
product functions / security	product functions / security	
product function		
ACL - MAC-based     Yes	product function	Yes
ACL - port/MAC-based     Yes		Yes
• IEEE 802.1x (radius) Yes	ACL - MAC-based	Yes
• broadcast/multicast/unicast limiter Yes	<ul><li>ACL - MAC-based</li><li>ACL - port/MAC-based</li></ul>	
• broadcast blocking Yes	<ul><li>ACL - MAC-based</li><li>ACL - port/MAC-based</li><li>IEEE 802.1x (radius)</li></ul>	Yes
protocol / is supported	<ul> <li>ACL - MAC-based</li> <li>ACL - port/MAC-based</li> <li>IEEE 802.1x (radius)</li> <li>broadcast/multicast/unicast limiter</li> <li>broadcast blocking</li> </ul>	
• SSH Yes	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported	
product functions / time	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported	Yes
product function	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH	Yes
SICLOCK support     Yes	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product functions / time	Yes
protocol / is supported	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product functions / time  product function	Yes Yes
• NTP Yes	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product functions / time  product function  SICLOCK support	Yes Yes
• SNTP Yes	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product functions / time  product function  SICLOCK supported	Yes Yes Yes
● IEEE 1588 profile default No	ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product functions / time  product function  SICLOCK support  protocol / is supported  NTP  SNTP	Yes Yes Yes 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	
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1	
• for emitted interference	EN 61000-6-4:2007 (Class A)	
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2:2005	
MTBF	40 y	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
standards, specifications, approvals / hazardous environm	nents	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X	
from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4	
certificate of suitability		
CCC / for hazardous zone according to GB standard	Yes	
standards, specifications, approvals / other		
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007	
• C-Tick	Yes	
KC approval	Yes	
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No	
standards, specifications, approvals / marine classification	n	
Marine classification association		
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes	
<ul> <li>French marine classification society (BV)</li> </ul>	Yes	
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No	
Germanische Lloyd (GL)	No	
• DNV GL	Yes	
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes	
Polski Rejestr Statkow (PRS)	Yes	
Royal Institution of Naval Architects (RINA)	No	
further information / internet-Links		
Internet-Link		
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool	
to website: Industrial communication	http://www.siemens.com/simatic-net	
• to website: Industry Mall	https://mall.industry.siemens.com	
to website: Information and Download Center	http://www.siemens.com/industry/infocenter	
• to website: Image database	http://automation.siemens.com/bilddb	
to website: CAx-Download-Manager	http://www.siemens.com/cax	
to website: Industry Online Support	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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