## **SIEMENS**

## **Data sheet**

## 6GK5528-0AR00-2HR2

SCALANCE XR528-6M; managed IE switch; 19" rack; 4x 1000/10000 Mbit/s SFP+; 6x 100/1000 Mbit/s 4-port media modules, electrical, electrical PoE or optical; LED diagnostics; error signaling contact; Select/set pushbutton, PROFINET IO device, network management, integrated redundancy manager; office features (RSTP, VLAN, IGMP, ...); C-plug in scope of delivery Layer 3 integrated; ports at the back.



product type designation	SCALANCE XR528-6M
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s
interfaces / for communication / maximum configuration for mo	dular devices
number of electrical ports / maximum	24
number of optical ports / maximum	28
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45
<ul> <li>for Power-over-Ethernet / for network components or terminal equipment</li> </ul>	12
number of electrical connections	
• for SFP+	4
interfaces / for communication / plug-in	
number of 100 Mbit/s ST(BFOC) ports	
<ul> <li>for multimode</li> </ul>	24
• for single mode (LD)	24
number of 1000 Mbit/s SC ports	
• for multimode	24
<ul><li>for single mode (LD)</li></ul>	24
number of electrical connections	
• for SFP	4
• for SFP+	4
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for management purposes</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
<ul> <li>for media module</li> </ul>	6
for power supply	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for management purposes</li> </ul>	RJ45
<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/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
operational current / of the signaling contacts	27 V
at DC / maximum	0.1 A
	U.1 A
supply voltage, current consumption, power loss	No
type of voltage supply / redundant power supply unit	No
supplied active power / of PSE / with PoE	
• per port / maximum	30 W
• total / maximum	180 W
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>	22 W
<ul> <li>supply voltage / 1 / rated value</li> </ul>	19.2 28.8 V
<ul><li>consumed current / 1 / maximum</li></ul>	11.5 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	
<ul> <li>during operation</li> </ul>	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
• note	Operation with integral fan, replaceable
relative humidity	
at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch cabinet	2
width	449 mm
height	87.2 mm
depth	305 mm
net weight	7.2 kg
fastening method	
19-inch installation	Yes
35 mm top hat DIN rail mounting	No
wall mounting	No
S7-300 rail mounting	No
• S7-1500 rail mounting	No
type of cable outlet	Cable outlet at rear
product features, product functions, product components / gene	
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	any (depending only on signal propagation time)
product function	Vee
• CLI	Yes
web-based management	Yes
MIB support	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
<ul> <li>port mirroring</li> </ul>	Yes
multiport mirroring	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	9216 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes

*	- ETD	Voc
COMPR	• FTP	Yes
DCP		
ILIDP SIMIP V1 SIMIP V2 SIMIP		
SNMP v2 SNMP v3 SNMP v3 SNMP v3 SNMP v3 SNMP system sunitariance function SNM1 - higher level designation/coation designation SNM1 - higher level designation/coation designation Product functions / diagnostics Product function / diagnostics Product function / diagnostics Product function / diagnostics SNMP v2 SNM1 - higher level designation/coation designation Product function / system syst		
SMAP v3 SMAP		
Ves		
identification & maintenance function  • I&Mo - device-specific information • I&M - thigher level designation floesignation  • I&M - higher level designation floesignation • IAM - port diagnostics • Pes • statistics Packet type • Yes • statistics Packet type • Yes • IAM - statistics • Yes • IAM - IAM - Performance / VLAN • IAM - port based • VLAN - Protocol-based • VLAN - Protocol-based • VLAN - IAM - maintum  255 • VLAN - IAM - maintum 255 • Ves • IAM - IAM - dynamic / maximum 256 • IAM - IAM - IAM - dynamic / maximum 257 • IAM -		
**IAMO - Legivicus-specific information   Yes		Yes
oriodust functions / diagnostics product functions / diagnostics  product functions  opnt diagnostics  ostatistics Packet Size  ostatistics Packet		
product functions / Idlagnostics	·	
product function  • port diagnostics • statistics Packet Size • statistics packet type • statistics packet type • statistics packet type • syst.og • syst.og • syst.og • yes • product functions / VLAN  product function • VLAN - port based • VLAN - port based • VLAN - prot protocol-based • VLAN - protocol-based • VLAN - protocol-based • VLAN - grammum 255  number of VLANs - maximum 255  number of VLANs - maximum 255  number of VLANs - maximum 255  product functions / DHCP  product functions / Protocol / Is supported / SYR • SYR		Yes
port diagnostics     statistics Packet Size     statistics packet type     error statistics         - systex packet type     even packet packet type     even packet packet type     even packet pa		
statistics Packet Size     statistics packet type     sel statistics packet type     error statistics     syst.og     product functions     VLAN - port based     VLAN - protoco-based     VLAN	•	
e statistics packet type error statistics eys,log yes  Systog product functions / LAN  product function  VLAN - port based VLAN - protocol-based VLAN - protocol - protocol (MRP) with redundancy protocol / is supported / Protocol (MRP) with redundancy protocol / is supported / Protocol (MRP) with redundancy protocol / is supported / Media Redundancy Protocol (MRP) Wes protocol / is supported / Media Redundancy protocol (MRP) with redundancy manager VLAN - protocol / is supported / Media Redundancy Protocol (MRP) Wes Protocol / is supported / Media Redundancy Protocol (MRP) wes protocol / is supported / Media Redundancy Protocol (MRP) Wes Protocol / is supported / Media Redundancy Protocol (MRP) Wes Protocol / is supported / Media Redundancy Protocol (MRP) Wes		
e error stallatics		
SysLog  product functions / VLAN  protucts muchan  VLAN - port based Yes  VLAN - protocol-based Yes  VLAN - IP-based Yes  Product function Yes  In umber of VLANS - dynamic / maximum  255  protocol / is supported / GVRP  Pes  Product function / HOP  product function  - DHCP client Yes  - DHCP Option 82 Yes  - DHCP Option 86 Yes  - DHCP Option 87 Yes  Product functions / routing  service / routing / note  product function  - static IP routing / note  - static IP routing iProf  - vas  - dynamic IP routing IPv6  - dynamic IP routing IPv6  - dynamic IP routing IPv6  - RIPv2  - RIPv2  - RIPv3  - RIPv6		
product functions / VLAN   prot based   Yes		
product function  • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic  number of VLANs / maximum 255  number of VLANs / maximum 255  protocol / is supported / GVRP  Product functions / DHCP  product functions / DHCP Option 82 • DHCP Option 83 • DHCP Option 86 • DHCP Option 86 • DHCP Option 87 • Static IP routing / note  product functions / routing  service / routing / note  product functions / routing  evice / routing / Proting / Yes • dynamic IP routing   Pv6 • CSPFV2 • CSPFV2 • VRS • VRRP   Yes  product function • ring redundancy  product function • ring redundancy protocol (HRP) • high speed redundancy protocol (HRP) • high speed redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy  product function • media redundancy protocol (MRP) with redundancy		Yes
VLAN - protocol-based VLAN - protocol-based VLAN of protocol-based VLAN of yoramic VES VLAN of yoramic Number of VLANs / maximum Z55  number of VLANs - dynamic / maximum Z55  protocol / is supported / CVRP Product functions / DHCP  product function DHCP client PHCP Option 86 DHCP Option 66 Yes DHCP Option 67 Product functions / routing  service / routing / note Product functions / ves visite in Prouting Product function  * static iP routing / Yes * static iP routing iPv6 * dynamic iP routing iPv6 * Ves * OSPFv2 * RIPnG for iPv6 * Ves *		
VLAN - protocol-based VLAN - IP-based VLAN - Myannic Ves  VLAN - Myannic  number of VLANs / maximum 255  number of VLANs - Aynamic / maximum 255  number of VLANs - Aynamic / maximum 255  product functions / DHCP  product functions / DHCP  product function  - DHCP client - DHCP Option 82 - DHCP Option 82 - DHCP Option 86 - DHCP Option 67 - Yes - DHCP Option 7  - Yes  product functions / routing  service / routing / note product function - static IP routing / note product function - static IP routing IPv6 - dynamic IP routing IPv6 - dynamic IP routing IPv6 - RIPv2 - RIPnG for IPv6 - OSPFv2 - OSPFv2 - VRRP	product function	
VLAN - IP-based	<ul> <li>VLAN - port based</li> </ul>	Yes
VLAN dynamic  number of VLANs - dynamic / maximum  number of VLANs - dynamic / maximum  protocol / is supported / GVRP  Yes  Product functions / DRICP  product function  DHCP client  DHCP Option 82  DHCP Option 86  See See See See See See See See See Se	<ul> <li>VLAN - protocol-based</li> </ul>	Yes
number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product functions / DHCP product functions / DHCP product function / DHCP Uses DHCP Option 82 Yes DHCP Option 86 Yes DHCP Option 66 Yes DHCP Option 77 Yes product functions / routing service / routing / note	VLAN - IP-based	Yes
number of VLANs - dynamic / maximum  product functions / DHCP  product functions / DHCP  product functions / DHCP  product function  DHCP client	VLAN dynamic	Yes
protocol / is supported / GVRP  product functions / DHCP  product functions	number of VLANs / maximum	255
product functions / DHCP  product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  * Yes  • DHCP Option 67  * Yes  * Service / routing / note  product functions / routing  * service / routing / note  product function  • static IP routing  • static IP routing  • static IP routing  • static IP routing  * Yes  • dynamic IP routing IPv6  • dynamic IP routing IPv6  • (Alphanic IP routing IPv6  • (Alphanic IP routing IPv6  • (Alphanic IPv6)  • (Alph	number of VLANs - dynamic / maximum	255
product function  OHCP Client  DHCP Option 82  Yes  OHCP Option 66  Pes  DHCP Option 67  Yes  Product functions / routing  service / routing / note  product function  • static IP routing IPv6  • static IP routing IPv6  • ves  • dynamic IP routing IPv6  • ves  odynamic IP routing IPv6  • RIPv2  • RIPv6 for IPv6  • OSPFv2  • OSPFv3 for IPv6  • VRRP  • VRRP or IPv6  Product functions / redundancy  product functions / redundancy protocol (HRP) with redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  • inigh speed redundancy protocol (HRP) with redundancy meanager  • media redundancy protocol (MRP) with redundancy media redundancy protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP)  • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP)  • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP) yes  protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP) with redundancy  Protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP) with redundancy  Protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy  media redundancy protocol (MRP) with redundancy  Protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy  Protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy  Protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy Protocol (MRP) with redundancy	protocol / is supported / GVRP	Yes
DHCP Option 82 DHCP Option 66 Pes DHCP Option 67 Pes DHCP Option 67 Pes  DHCP Option 67 Pes  Product functions / routing  service / routing / note Product function  static IP routing IPv6 static IP routing IPv6 ves dynamic IP routing IPv6 ves dynamic IP routing IPv6 Protocol / is supported  RIPv2 RIPnG for IPv6 OSPFv2 SOSPFv2 SOSPFv3 for IPv6 VRRP VRRP VRRP VRRP VRRP VRRP VRRP VRR	product functions / DHCP	
DHCP Option 82     DHCP Option 66     Ves     DHCP Option 67     Yes  product functions / routing  service / routing / note  product function      static IP routing   Yes     static IP routing   Yes     static IP routing   Yes     dynamic IP routing   Yes     dynamic IP routing   Yes  protocol / is supported      RIPv2	product function	
DHCP Option 66     DHCP Option 67     Yes  product functions / routing  service / routing / note  product function      static IP routing     static IP routing   Yes     dynamic IP routing   Yes     dynamic IP routing   Yes  protocol / is supported  RIPv2     RIPv3     RIPv4     RIPv6     OSPFv2     OSPFv2     OSPFv9     VRRP     VRRP     VRRP     VRRP     VRRP     VRRP (Yes  Product functions / redundancy  product function  inig redundancy  high speed redundancy protocol (HRP) with redundancy manager  product function  media redundancy protocol (MRP) with redundancy manager  manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager  Product function  media redundancy protocol (MRP) with redundancy manager	DHCP client	Yes
DHCP Option 67     product functions / routing  service / routing / note  product function      static IP routing	DHCP Option 82	Yes
service / routing / note  product function  • static IP routing • yes • dynamic IP routing IPv6 • dynamic IP routing IPv6 • dynamic IP routing IPv6 • Yes  protocol / is supported • RIPv2 • RIPnG for IPv6 • Yes • OSPFv2 • OSPFv2 • OSPFv2 • VRRP • VRRP • VRRP • VRRP for IPv6 • Yes  product functions / redundancy  product function • ring redundancy • 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  product function • media redundancy protocol (MRP) with redundancy	<ul> <li>DHCP Option 66</li> </ul>	Yes
service / routing / note	<ul> <li>DHCP Option 67</li> </ul>	Yes
product function  • static IP routing IPv6 • static IP routing IPv6 • dynamic IP routing IPv6 • Yes  protocol / is supported • RIPv2 • RIPnG for IPv6 • Ves • OSPFv2 • OSPFv3 for IPv6 • VRP • VRRP Yes  product functions / redundancy  product function • ring 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  • high speed redundancy protocol (MRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy manager  • media redundancy protocol (MRP) with redundancy manager	product functions / routing	
static IP routing IPv6 static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 for dynamic IP routing IPv6  edynamic IP routing IPv6 Yes  rotocol / is supported  RIPv2 RIPnG for IPv6 Yes OSPFv2 OSPFv3 for IPv6 Yes VRRP VRRP VRRP VRRP VRRP VRRP VRRP VRR	service / routing / note	IP routing integrated
static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6     dynamic IP routing IPv6     Yes     dynamic IP routing IPv6     Yes  protocol / is supported     RIPv2     RIPnG for IPv6     Yes     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP     VRRP     VRRP    Yes     VRRP    Yes  Product functions / redundancy  product function     ring redundancy Protocol (HRP) with redundancy manager     high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)     redundancy  product function      redundancy     Yes  Product function  Product function  Protocol / is supported / Media Redundancy Protocol (MRP)  Product function  Product	product function	
dynamic IP routing	<ul> <li>static IP routing</li> </ul>	Yes
• dynamic IP routing IPv6     protocol / is supported     • RIPv2     • RIPv6     • RIPv6     • RIPv6     • RIPv6     • RIPv7     • RIPv6     • RIPv8     • RIPv8     • RIPv9     • Ves     • SPFv3 for IPv9     • Ves     • VRRP     • VRRP for IPv9     • VRRP for IPv9     • VRRP for IPv9      product functions / redundancy      product function     • ring redundancy     • ring redundancy     • High Speed Redundancy Protocol (HRP)     • high speed redundancy protocol (HRP) with redundancy manager     • high speed redundancy protocol (HRP) with standby redundancy     redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  Product function     • media redundancy protocol (MRP) with redundancy manager  Yes  Product function     • media redundancy protocol (MRP) with redundancy manager  Yes	<ul> <li>static IP routing IPv6</li> </ul>	Yes
protocol / is supported  • RIPv2  • RIPnG for IPv6  • OSPFv2  • OSPFv3 for IPv6  • VRRP  • VRRP  • VRRP for IPv6  Product functions / redundancy  product function  • ring redundancy  • high Speed Redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  • media redundancy protocol (MRP) with redundancy manager  • media redundancy protocol (MRP) with redundancy media redundancy protocol / MRP) with redundancy media redundancy protocol (MRP) yes	dynamic IP routing	Yes
RIPv2 RIPnG for IPv6 PosPrv2 RIPnG for IPv6 Superior IPv6 OSPFv2 OSPFv3 for IPv6 VRRP Ves VRRP Ves VRRP Ves VRRP for IPv6 Ves  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	dynamic IP routing IPv6	Yes
RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 Yes VRRP VRRP VRRP VRRP VRRP for IPv6  Product functions / redundancy  Product function Fing 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  media redundancy protocol (MRP) with redundancy media redundancy protocol (MRP)  Product function  media redundancy protocol (MRP) with redundancy manager  Yes	protocol / is supported	
OSPFv2 OSPFv3 for IPv6 VRRP VRRP VRRP VRRP for IPv6  Product functions / redundancy  product function ing 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 protocol / is supported / Media Redundancy Protocol (MRP)  product function media redundancy protocol (MRP) with redundancy manager  Yes	• RIPv2	Yes
OSPFv3 for IPv6 VRRP Vres VRRP for IPv6 Yes  Product functions / redundancy  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  protocol / is supported / Media Redundancy Protocol (MRP)  product function media redundancy protocol (MRP) with redundancy manager  Yes  Product function media redundancy protocol (MRP) with redundancy manager  Yes  Product function  Yes  Product function  MRP) With redundancy Yes  Product function  Yes	• RIPnG for IPv6	Yes
<ul> <li>VRRP</li> <li>VRRP for IPv6</li> <li>Yes</li> <li>product functions / redundancy</li> <li>product function</li> <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>Yes</li> </ul>	OSPFv2	Yes
● VRRP for IPv6  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  Yes  Yes	OSPFv3 for IPv6	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  Yes	• VRRP	Yes
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  Yes  Yes	VRRP for IPv6	Yes
<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> </ul> Yes Yes Yes Yes	product functions / redundancy	
<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> </ul> Yes Yes Yes Yes	product function	
<ul> <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> </ul>	•	Yes
<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>Yes</li> </ul>		Yes
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  Yes  Yes		Yes
redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  ● media redundancy protocol (MRP) with redundancy manager  Yes  Yes		
product function  ● media redundancy protocol (MRP) with redundancy manager  Yes		Yes
media redundancy protocol (MRP) with redundancy manager  Yes	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager	product function	
Media Redundancy Protocol Interconnection (MRP-I)  Yes		Yes
	Media Redundancy Protocol Interconnection (MRP-I)	Yes

• redundancy procedure RSTP     • redundancy procedure RSTP+     • redundancy procedure RSTP+     • redundancy procedure MSTP     • passive listening     protocol / is supported     • LACP     product functions / security  product function     • ACL - MAC-based     • ACL - port/MAC-based     • LEEE 802.1x (radius)     • broadcast/multicast/unicast limiter     • broadcast/blocking     protocol / is supported     • SSH     yes  product functions / time  product functions / time  product function     • SICLOCK support     • SICLOCK support     • SITP     • SITP     • SITP     type of time synchronization  standards    • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B, C, D / T	
redundancy procedure RSTP+     redundancy procedure MSTP     passive listening     yes  protocol / is supported	
redundancy procedure MSTP     passive listening     Yes  protocol / is supported         LACP     Yes  product functions / security  product function	
protocol / is supported  LACP  product functions / security  product function  ACL - MAC-based  ACL - port/MAC-based  For broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  product function  SICLOCK support  Protocol / is supported  NTP  SNTP  SNTP  Tyes  SNTP  type of time synchronization  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4	
protocol / is supported  • LACP  product functions / security  product function  • ACL - MAC-based Yes  • ACL - port/MAC-based Yes  • IEEE 802.1x (radius) Yes  • broadcast/multicast/unicast limiter Yes  • broadcast blocking Yes  protocol / is supported  • SSH Yes  product functions / time  product function  • SICLOCK support Yes  protocol / is supported  • NTP  • SNTP  • SNTP  tyes  type of time synchronization  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G	
Product functions / security  product function  ACL - MAC-based  ACL - port/MAC-based  IEEE 802.1x (radius)  Ibroadcast/multicast/unicast limiter  Ibroadcast blocking  Protocol / is supported  SSH  Product functions / time  Product functions / time  product function  SICLOCK support  Protocol / is supported  SICLOCK support  Protocol / is supported  SICLOCK support  Protocol / is supported  Ibroadcast blocking  Pres  Product functions / time  Product functions / time  Product functions / Yes  Protocol / is supported  Ibroadcast blocking  Pres  Product functions / time  Product functions / time  Product functions / Yes  Product functions / Ime  Product functions / Ime  Product functions / Ime  Product functions / Ime  Pres  Pres  Pres  Fres  SNTP	
product function  • 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  • SNTP  type of time synchronization  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G T4	
product function  • 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  • NTP • SNTP • SNTP  • SNTP  type of time synchronization  standards, specifications, approvals  standard • for FM  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
• 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  • NTP • SNTP • SNTP  • SNTP  type of time synchronization  standards, specifications, approvals  standard • for FM  Yes  Yes  Yes  Yes  Yes  Yes  Yes  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A, B,	
ACL - port/MAC-based  IEEE 802.1x (radius)  broadcast/multicast/unicast limiter  broadcast blocking  protocol / is supported  SSH  Yes  product functions / time  product function  SICLOCK support  Protocol / is supported  NTP  SNTP  SNTP  Yes  type of time synchronization  standards, specifications, approvals  standard  for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
IEEE 802.1x (radius)  Ibroadcast/multicast/unicast limiter  Ibroadcast blocking  protocol / is supported  SSH  Product functions / time  product function  ISICLOCK support  In NTP  In NTP  In SNTP  Itype of time synchronization  standards, specifications, approvals  standard  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4  IFM3611: Class 1, Divison 2, Group A, B, C, D / T4  IFM3611: Class 1, Divison 2, Group A, B,	
broadcast/multicast/unicast limiter     broadcast blocking  protocol / is supported     SSH     Yes  product functions / time  product function     SICLOCK support  protocol / is supported     NTP     SNTP     SNTP  type of time synchronization  standards, specifications, approvals  standard     for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, G	
broadcast/multicast/unicast limiter     broadcast blocking  protocol / is supported     SSH     Yes  product functions / time  product function     SICLOCK support  protocol / is supported     NTP     SNTP     SNTP  type of time synchronization  standards, specifications, approvals  standard     for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM3611: Class 1, Divison 2, Group A, B, C, D / T4  FM361	
protocol / is supported  SSH  Yes  product functions / time  product function  SICLOCK support  Protocol / is supported  NTP  SNTP  SNTP  Yes  type of time synchronization  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4	
protocol / is supported  SSH  Yes  product functions / time  product function  SICLOCK support  Protocol / is supported  NTP  SNTP  SNTP  Yes  type of time synchronization  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C, T4	
● SSH  product functions / time  product function  ● SICLOCK support  protocol / is supported  ● NTP  ● SNTP  SNTP  type of time synchronization  Standards, specifications, approvals  standard  ● for FM  Pyes  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group A	
product functions / time  product function  • SICLOCK support  protocol / is supported  • NTP  • SNTP  • SNTP  type of time synchronization  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G	
product function  • SICLOCK support  protocol / is supported  • NTP  • SNTP  • SNTP  type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
● SICLOCK support  protocol / is supported  ● NTP  ● SNTP  SNTP  type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  ● for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
protocol / is supported  • NTP  • SNTP  type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G	
● NTP  ● SNTP  type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  ● for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
◆ SNTP  type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  ◆ for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
type of time synchronization  IEEE 1588  standards, specifications, approvals  standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, G	
standards, specifications, approvals standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
standard  • for FM  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
• for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, C T4	
T4	
	Froup IIC,
• for safety / from CSA and UL  UL 60950-1, CSA C22.2 No. 60950-1-03	
• for emitted interference EN 61000-6-4 (Class A)	
• for interference immunity EN 61000-6-2	
reference code	
• according to IEC 81346-2 KF	
• according to IEC 81346-2:2019 KFE	
standards, specifications, approvals / CE	
certificate of suitability / CE marking Yes	
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 0145 X	07 ATEX
<ul> <li>from CSA and UL</li> <li>ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group</li> <li>D / T4, Class 1 / Zone 2 / Group IIC / T4</li> </ul>	A, B, C,
certificate of suitability	
CCC / for hazardous zone according to GB standard     Yes	
CCC / for hazardous zone according to GB standard / as     Ex nA IIC T4 Gc	
marking	
standards, specifications, approvals / other	
certificate of suitability EN 61000-6-2, EN 61000-6-4	
• C-Tick Yes	
KC approval     Yes	
• E1 approval	
• E1 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 Yes	
Lloyds Register of Shipping (LRS)  A Nimpon Kajii Kvakai (NK)  Yes  Yes	
Nippon Kaiji Kyokai (NK)  Yes	
- Deleki Deigetr Ctetkeyy (DDC)	
Polski Rejestr Statkow (PRS)  Yes  Yes	
Royal Institution of Naval Architects (RINA)  Yes	

• to web page: selection aid TIA 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/tia-selection-tool 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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