## SIEMENS

## Data sheet

## 6GK5416-4GS00-2AM2



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

product type designation	SCALANCE XM416-4C	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s	
number of ports / maximum	24	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	24	
number of electrical ports / with PoE / maximum	8	
number of optical ports / maximum	12	
interfaces / for communication / integrated		
number of electrical connections		
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45 with securing collar	
number of 10/100/1000 Mbit/s RJ45 ports / integrated		
<ul> <li>with securing collar</li> </ul>	16	
number of electrical connections		
for SFP	4; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver	
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver	
number of connectable extender modules	1	
interfaces / for communication / plug-in		
number of 10/100/1000 Mbit/s RJ45 ports		
<ul> <li>with securing collar</li> </ul>	8	
<ul> <li>with securing collar / with PoE</li> </ul>	8	
number of 100 Mbit/s LC ports		
<ul> <li>for multimode</li> </ul>	12	
<ul> <li>for single mode (LD)</li> </ul>	12	
<ul> <li>for single mode (LH+)</li> </ul>	12	
for single mode (ELH200)	12	
number of 1000 Mbit/s LC ports		
<ul> <li>for multimode</li> </ul>	12	
<ul> <li>for single mode (LD)</li> </ul>	12	
<ul> <li>for single mode (LH)</li> </ul>	12	
<ul> <li>for single mode (LH+)</li> </ul>	12	
for single mode (ELH)	12	
number of electrical connections		
for SFP	12; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver	
interfaces / other		
number of electrical connections		
<ul> <li>for operator console</li> </ul>	1	
<ul> <li>for management purposes</li> </ul>	1	

<ul> <li>for signaling contact</li> </ul>	1
for power supply	1
type of electrical connection	
for operator console	RJ11
for management purposes	RJ45
for signaling contact	2-pole terminal block
number of extender expansion interfaces	2
design of the removable storage	
• C-PLUG	Yes
• C-PLUG/KEY-PLUG	Yes
product feature / hot-swappable interface modules	Yes
	165
signal inputs/outputs	
operating voltage / of the signaling contacts	2414
at DC / rated value	24 V
operational current / of the signaling contacts	244
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
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>	48 W
<ul> <li>supply voltage / 1 / rated value</li> </ul>	19.2 28.8 V
consumed current / 1 / maximum	2 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>	-40 +70 °C
during operation     during storage	
during storage	-40 +85 °C
during storage     during transport	
during storage     during transport relative humidity	-40 +85 °C -40 +85 °C
during storage     during transport	-40 +85 °C
during storage     during transport  relative humidity     at 25 °C / without condensation / during operation /	-40 +85 °C -40 +85 °C
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	-40 +85 °C -40 +85 °C 95 %
during storage     during transport  relative humidity     at 25 °C / without condensation / during operation /     maximum  protection class IP	-40 +85 °C -40 +85 °C 95 %
• during storage     • during transport  relative humidity     • at 25 °C / without condensation / during operation /     maximum  protection class IP  design, dimensions and weights	-40 +85 °C -40 +85 °C 95 % IP20
during storage     during transport relative humidity     at 25 °C / without condensation / during operation /     maximum protection class IP design, dimensions and weights design	-40 +85 °C -40 +85 °C 95 % IP20 modular
• during storage     • during transport  relative humidity     • at 25 °C / without condensation / during operation /     maximum  protection class IP  design, dimensions and weights  design width	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm
during storage     during transport relative humidity     at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design width height	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm
during storage     during transport relative humidity         at 25 °C / without condensation / during operation /         maximum protection class IP design, dimensions and weights design width height depth	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm
during storage     during transport  relative humidity         • at 25 °C / without condensation / during operation /         maximum  protection class IP  design, dimensions and weights  design width height depth net weight fastening method     • 35 mm top hat DIN rail mounting	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm
during storage     during transport relative humidity         at 25 °C / without condensation / during operation /         maximum protection class IP      design, dimensions and weights     design     width     height     depth     net weight     fastening method	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg
during storage     during transport  relative humidity         • at 25 °C / without condensation / during operation /         maximum  protection class IP  design, dimensions and weights  design width height depth net weight fastening method     • 35 mm top hat DIN rail mounting	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes
during storage     during transport  relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> </ul> design, dimensions and weights <ul> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> </ul> <li>design, dimensions and weights <ul> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>\$7-300 rail mounting</li> <li>\$7-1500 rail mounting</li> </ul> </li> <li>product features, product functions, product components cascading in the case of a redundant ring / at</li>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes
• during storage     • during transport      relative humidity     • at 25 °C / without condensation / during operation /     maximum      protection class IP      design, dimensions and weights      design     width     height     depth     net weight     fastening method     • 35 mm top hat DIN rail mounting     • S7-300 rail mounting     • S7-1500 rail mounting     product features, product functions, product components     cascading in the case of a redundant ring / at     reconfiguration time of <\~0.3\~s	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes 50
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>design, dimensions and weights</li> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> <li>product features, product functions, product components</li> <li>cascading in the case of a redundant ring / at reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yas Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>design, dimensions and weights</li> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>\$7-300 rail mounting</li> <li>\$7-1500 rail mounting</li> <li>\$7-1500 rail mounting</li> <li>product features, product functions, product components</li> <li>cascading in the case of a redundant ring / at reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> <li>product functions / management, configuration, engineeri</li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yas Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> </ul> <li>design, dimensions and weights <ul> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>\$7-300 rail mounting</li> <li>\$7-1500 rail mounting</li> <li>\$7-1500 rail mounting</li> <li>\$7-1500 rail mounting</li> <li>cascading in the case of a redundant ring / at reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> </ul> </li>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes I general 50 any (depending only on signal propagation time) ng
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> </ul> <li>design, dimensions and weights <ul> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> </ul> </li> <li>fastening method <ul> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> </ul> </li> <li>product features, product functions, product components cascading in the case of a redundant ring / at reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> <li>product functions / management, configuration, engineeri product function <ul> <li>CLI</li> </ul></li>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> </ul> <li>design, dimensions and weights <ul> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> </ul> </li> <li>fastening method <ul> <li>35 mm top hat DIN rail mounting</li> <li>\$7-300 rail mounting</li> <li>\$7-1500 rail mounting</li> </ul> </li> <li>product features, product functions, product components cascading in the case of a redundant ring / at reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> <li>product functions / management, configuration, engineeri</li> <li>product function</li> <li>CLI <ul> <li>web-based management</li> </ul> </li>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>design, dimensions and weights</li> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> <li>S7-1500 rail mounting</li> <li>product features, product functions, product components</li> <li>cascading in the case of a redundant ring / at reconfiguration time of &lt;\-0.3\~s</li> <li>cascading in cases of star topology</li> <li>product functions / management, configuration, engineeri</li> <li>product function</li> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> <li>design, dimensions and weights         <ul> <li>design, dimensions and weights</li> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> </ul> </li> <li>product features, product functions, product components         <ul> <li>cascading in the case of a redundant ring / at             <ul> <li>reconfiguration time of &lt;\~0.3\~s</li> <li>cascading in cases of star topology</li> </ul> </li> <li>product function         <ul> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> <li>TRAPs via email</li> </ul> </li> </ul></li></ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>design, dimensions and weights</li> <li>design</li> <li>width</li> <li>height</li> <li>depth</li> <li>net weight</li> <li>fastening method</li> <li>35 mm top hat DIN rail mounting</li> <li>S7-300 rail mounting</li> <li>S7-1500 rail mounting</li> <li>S7-1500 rail mounting</li> <li>product features, product functions, product components</li> <li>cascading in the case of a redundant ring / at reconfiguration time of &lt;\-0.3\~s</li> <li>cascading in cases of star topology</li> <li>product functions / management, configuration, engineeri</li> <li>product function</li> <li>CLI</li> <li>web-based management</li> <li>MIB support</li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 modular 140 mm 147 mm 125 mm 1.25 kg Yes Yes Yes Yes Yes Yes Yes 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
telegram length / for Ethernet / maximum	9216 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	
I&M0 - device-specific information	Yes
<ul> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	
<ul> <li>port diagnostics</li> </ul>	Yes
<ul> <li>statistics Packet Size</li> </ul>	Yes
<ul> <li>statistics packet type</li> </ul>	Yes
error statistics	Yes
<ul> <li>SysLog</li> </ul>	Yes
product functions / VLAN	
product functions / VLAN	Yes
product functions / VLAN product function	Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based	
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based	Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum	Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum	Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum	Yes Yes 255
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum	Yes Yes 255 255
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP	Yes Yes 255 255
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP	Yes Yes 255 255
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function	Yes Yes 255 255 Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66	Yes Yes 255 255 Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82	Yes Yes 255 255 Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66	Yes Yes 255 255 Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67	Yes Yes 255 255 Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing service / routing / note	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing service / routing / note product function	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN         product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         number of VLANs / maximum         number of VLANs - dynamic / maximum         product functions / DHCP         product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67         product function         • service / routing / note         product function	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing service / routing / note product function • static IP routing IPv6	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product functions / DHCP product function • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing service / routing / note product function • static IP routing IPv6 • dynamic IP routing	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN         product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         number of VLANs / maximum         number of VLANs - dynamic / maximum         product functions / DHCP         product functions / DHCP         product function         • DHCP Client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67         product functions / routing         service / routing / note         product function         • static IP routing IPv6         • dynamic IP routing IPv6	Yes Yes 255 255 Yes Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN         product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN VLANS / maximum         number of VLANs / maximum         number of VLANs - dynamic / maximum         protocol / is supported / GVRP         product functions / DHCP         product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67         product function         service / routing / note         product function         • static IP routing         • static IP routing IPv6         • dynamic IP routing IPv6         • dynamic IP routing IPv6	Yes Yes 255 255 255 Yes Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN         product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         number of VLANs / maximum         number of VLANs - dynamic / maximum         product functions / DHCP         product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67         product function         service / routing / note         product function         • static IP routing         • static IP routing IPv6         • dynamic IP routing IPv6         • RIPv2	Yes Yes 255 255 255 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic number of VLANs / maximum number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product functions / DHCP product function • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 product functions / routing service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing IPv6 protocol / is supported • RIPv2 • RIPNG for IPv6	Yes Yes 255 255 255 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

• VRRP	Vac
VRRP     VRRP for IPv6	Yes
product functions / redundancy	Tes
product function	
of the PROFINET IO device / is supported /     PROFINET system redundancy	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
redundancy procedure STP	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
passive listening	Yes
protocol / is supported	N .
• LACP	Yes
product functions / security	
product function	
ACL - MAC-based	Yes
ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	Yes
broadcast/multicast/unicast limiter	Yes
broadcast blocking	Yes
protocol / is supported	
• SSH	Yes
• SSL	Yes
product functions / time	
product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
protocol / is supported	Vee
• NTP	Yes
• SNTP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	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 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
for emitted interference	EN 61000-6-4 (Class A)
for interference immunity	EN 61000-6-2
MTBF	22 у
reference code	
according to IEC 81346-2	KF
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes

certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standards, specifications, approvals / hazardous environn	
standard / for hazardous zone	EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X
• from CSA and UL	ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	
<ul> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
KC approval	Yes
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
• DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
further information / internet-Links	
Internet-Link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	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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<sup>7/8/2022 🖸</sup>