SIEMENS

Data sheet

6GK5202-2JR00-2BA6



SCALANCE X202-2PIRT PRO, Managed IE IRT switch, Degree of protection IP65/67, 2x 10/100 Mbit/s Push Pull RJ45 ports, 2x 100 Mbit/s Push-pull SCRJ port; Error signaling contact with set pushbutton, Redundant power supply, PROFINET IO device; network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-plug optional.

product type designation	SCALANCE X202-2P IRT PRO
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / maximum configuration for mo	dular devices
number of electrical ports / maximum	2
number of optical ports / maximum	2
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	2
number of 100 Mbit/s SC-RJ-ports / for POF FOC	
 with push-pull connection system 	2
interfaces / other	
number of electrical connections	
 for signaling contact 	1
• for power supply	1
type of electrical connection	
 for signaling contact 	5-pin M12 socket
for power supply	5-pin push-pull plug PRO socket
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	
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	7.2 W
 supply voltage / 1 / rated value 	18 32 V
consumed current / 1 / maximum	0.3 A
 type of electrical connection / 1 / for power supply 	5-pin Push Pull Plug PRO socket
 product component / 1 / fusing at power supply input 	Yes
• fuse protection type / 1 / at input for supply voltage	1.1 A / 33 V
ambient conditions	
ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
relative humidity	

• at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP65
design, dimensions and weights	
design	compact
width	90 mm
height	125 mm
depth	124 mm
net weight	1 kg
fastening method	
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	No
product features, product functions, product components / gene	eral
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes
TRAPs via email	Yes
• configuration with STEP 7	Yes
port mirroring	No
· · · · · · · · · · · · · · · · · · ·	
multiport mirroring with IRT (PROFINET IO switch	No Yea
with IRT / PROFINET IO switch	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	C
network load class / according to PROFINET	2
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	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
statistics Packet Size	Yes
statistics packet type	Yes
error statistics	Yes
product functions / DHCP	
product function	
DHCP client	Yes
product functions / redundancy	100
product function	Voc
• ring redundancy	Yes
High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) high speed redundancy protocol (HRP)	Yes
 high speed redundancy protocol (HRP) with redundancy 	Yes

Pinis secolar deuthodancy protocol (HRP) with standby redundancy protocol (MRP) Yes	manager	
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product function Parallel Redundancy protocol (PRP) Redundant Network Acoss (RNA) Passive listening Protocol / is supported SSH Yes Protocol / is supported SSH Protocol / is supported NIP No SNTP		165
product function Parallel Redundancy protocol (PRP) Redundant Network Acoss (RNA) Passive listening Protocol / is supported SSH Yes Protocol / is supported SSH Protocol / is supported NIP No SNTP	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager		
manager	•	Yes
PRPI network Access (RNA) passible islenting product functions / Security product functions / Sime product functions /		
Parallel Redundancy Protocol (PRP)Redundant Network Access (RNA) * passive Islanding product functions / security protocol / is supported * SSH * Yes Product functions / time * SICCOCK supported * NTP * No * SNTP * No * SNTP * Yes * Standards, specifications, approvals standards, specifications, approvals * Standards / Specifications, approvals * EN 61000-64.2001 (Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM6611-Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, Class 1, Division 2, GP, IIC, T4, Class 1, Di		Yes
Access (RNA)		
Possive listening product functions is security product functions if security product functions if supported		No
product functions / security protocol / is supported	,	Vac
protocol / is supported		163
* SISH Yes product functions / time product functions / time product functions / time * SICL OCK support * NTP Yes * SNTP Yes * SNTP Yes * SNTP * SNTP Yes * FMS011: Class 1, Division 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4, FM10US9205X * for emitted interference EN 61000-64-22001 (Class A) * FM 1000-64-22001 (Class A) * FM 1000-64-22001 (Class A) * FM 1000-64-2001	·	
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SICLOCK support NO NO NO NO NO NO NO NO NO SNTP SNTP FM3811: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US0200X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US020X FM3612: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM10US02, GROUP A,	·	
protocol / is supported • NTP • NTP • NN • SNTP Yes standard, specifications, approvals standard • for FM • for FM • for emitted interference • for interference immunity • for emitted interference • for interference immunity * FN 61000-64-2001 (Class A) • for emitted interference • according to IEC 81346-2 • for CSL (Class A) • for CSA and UL * FN 61000-64-2001 * FE * Standards, specifications, approvals / fazardous environments standard / for hazardous zone • for CSA and UL * Certificate of suitability / CE marking • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for CLUs HazLoc / as File Nr. * E240480 (NWHP, NWHP7) * Standards, specifications, approvals / other certificate of suitability • CCC / Inc hazardous zone according to GB standard / as marking • for CLUs HazLoc / as File Nr. * E240480 (NWHP, NWHP7) * E240480 (NWHP, NWHP7) * Standards, specifications, approvals / other certificate of suitability • CR approval • analysis application in accordance with EN 50155 • railway application in accordance with EN 50124-1 No * Certificate information / poptional / C-PLUG • to website: Industry Mall • to website: Industry Mall • to website: Industry Mall • to website: Information and Download Center • to website: Information and	·	L.
NO SNTP SNTP Yes standards, specifications, approvals standard • for FM • for emitted interference • for interference immunity • for emitted interference • for interference immunity • for emitted interference • for interference immunity MTBF reference code • according to IEC 81346-2 • for making Pes standards, specifications, approvals / December 1 standard / for hazardous zone • from CSA and UL • form CSA and UL • form CSA and UL • Certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as making • for cULus HazLoc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cULus HazLoc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cULus HazLoc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cultus Hazloc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cultus Hazloc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cultus Hazloc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cultus Hazloc / as File Nr. • standards, specifications, approvals / other certificate of suitability • CTC / for hazardous zone according to GB standard / as making • for cultus Hazloc / as File Nr. • St		Yes
*SNTP Yes standards, specifications, approvals standard * for FM FM6111: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6111: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6112: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6112: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6112: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6112: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM6112: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, E240480 **Control of suitability		
standard • for FM • for FM • for FM • for emitted interference • for interference immunity FM 5611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP, IIC, T4, FM 16US2058X EN 61000-64-2001 (Class A) FM 5610-64-2001 (Class A) FM 5610-64-2001 (Class A) FM 5610-64-2001 (Class A) FM 5610-64-2001 (Class A) FM 56100-64-2001 (Class A) FM 56100-64-		
standard • for FM • for FM • for emitted interference • for interference immunity MTBF ## 161000-6-4:2001 (Class A) ## 161000-6-4:2001 (Class A) ## 161000-6-4:2001 ## 161000-6-4:		Yes
FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0208X FM 16 M 16	standards, specifications, approvals	
For emitted interference • for interference immunity EN 61000-64-2001 (class A) MTBF reference code • according to IEC 81346-2 • free transparence of suitability / CE marking Yes standard / for hazardous zone • from CSA and UL ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D 14, CL. 1 / Zone 2 / GP. IIC, T4, E240480 • from CSA and UL ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D 14, CL. 1 / Zone 2 / GP. IIC, T4, E240480 • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. • E240480 (NWHP, NWHP7) • C-Tick • C-Tick • Ro approval • CA Capproval • Capproval • Callway application in accordance with EN 50155 • railway application in accordance with EN 50154-1 No ***Reserved of the standard of the	standard	
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For interference immunity		
MTBF reference code	for emitted interference	EN 61000-6-4:2001 (Class A)
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 Phazardous environments error CSA and UL Phazardous zone according to GB standard Phazardous zone Phazar	for interference immunity	EN 61000-6-4:2001
according to IEC 81346-2 according to IEC 81346-2:2019 KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE KFE	MTBF	84.99 a
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certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone	according to IEC 81346-2:2019	KFE
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standard / for hazardous zone • from CSA and UL • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard of CCC / for hazardous zone according to GB standard as marking • for cULus Hazl oc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50155 product extension / optional / C-PLUG further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Image database • to website: Image database • to website: CAx-Download-Manager • to website: CAx-Download-Manager • to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that	otandarao, specinications, approvais / OL	
• from CSA and UL • from CSA and UL ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D 74, CL. 1 / Zone 2 / GP. IIC, T4, E240480 certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50155 • railway application in accordance with EN 50124-1 accessories product extension / optional / C-PLUG further information / internet links internet link • 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: Image database • to website: Industry Online Support security information security information Siemens provides products and solutions with industrial security functions that		Yes
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certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. E240480 (NWHP, NWHP7) standards, specifications, approvals / other certificate of suitability • C-Tick Yes • KC approval • railway application in accordance with EN 50155 No • railway application in accordance with EN 50124-1 No accessories product extension / optional / C-PLUG Yes further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Information and Download Center • to website: Information and Download-Manager • to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that	certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
CCC / for hazardous zone according to GB standard CCC / for hazardous zone according to GB standard / as marking for cULus HazLoc / as File Nr. E240480 (NWHP, NWHP7) Standards, specifications, approvals / other Certificate of suitability C-Tick KC approval KC approval Finalway application in accordance with EN 50155 Finalway application in accordance with EN 50124-1 Finalway application in accordance with E	certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C,
CCC / for hazardous zone according to GB standard / as marking for cULus HazLoc / as File Nr. Standards, specifications, approvals / other Certificate of suitability C-Tick KC approval railway application in accordance with EN 50155 railway application in accordance with EN 50124-1 accessories product extension / optional / C-PLUG to web page: selection aid TIA Selection Tool to website: Industry Mall to website: Industry Mall to website: Information and Download Center to website: Information and Download Center to website: Inage database to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that Ex nA IIC T4 Gc E240480 (NWHP, NWHP7) E240480 (NWHP, NWHPT) E240480 (NUH) 10444	certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone • from CSA and UL	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C,
of ror CULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability C-Tick KC approval railway application in accordance with EN 50155 railway application in accordance with EN 50124-1 accessories product extension / optional / C-PLUG further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industrial communication to website: Information and Download Center to website: Information and Download Center to website: Inge database to website: Inge database to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that	certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone • from CSA and UL certificate of suitability	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480
• for cULus HazLoc / as File Nr. E240480 (NWHP, NWHP7) standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50124-1 No accessories product extension / optional / C-PLUG further information / internet links internet link • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industrial communication • to website: Information and Download Center • to website: Information and Download Center • to website: Image database • to website: Industry Online Support • to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that	certificate of suitability / CE marking standards, specifications, approvals / hazardous environments standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes
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order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-ofthe-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Approvals / Certificates

General Product Approval

EMC

For use in hazardous locations

Manufacturer Declaration



Miscellaneous



ATEX-Zone 2-Declaration



IECEx

For use in hazardous locations

Declaration of Conformity

<u>FM</u>

CCC-Ex







Manufacturer Declaration

Declaration of Conformity

Marine / Shipping

other

Miscellaneous









PROFINET-Certification

Environment



last modified:

9/22/2023

