SIEMENS

Data sheet

6GK5991-4AB00-8AA0

product description

XR-300 media module

SCALANCE X accessory; Media module MM991-4; 4x 100 Mbit/s BFOC ports, optical; multimode optical up to max. 5 km.



number of electrical/optical connections / for network components or terminal equipment / maximum number of optical interfaces / for network components or terminal equipment / maximum number of optical interfaces / for network components or terminal equipment / maximum number of 100 bible STIREPOC) ports / for multimode / integrated design of the optical interface / for network components or terminal equipment wavelength / of the optical interface 2 1310 nm; Multi-mode connectable optical power relative to 1 mW of the transmitter output / maximum - 19 dB of the transmitter output / maximum - 19 dB of the receiver input / maximum - 3 dB optical sensitivity relating to 1 mW / of the receiver input / - 32 dB maximum optical sensitivity relating to 1 mW / of the receiver input /	interfaces	
terminal equipment / maximum number of 100 Mblt/s ST(BFOC) ports / for multimode / inlegrated design of the optical interface / for network components or terminal equipment wavelength / of the optical interface 1310 nm; Multi-mode connectable optical power relative to 1 mW		4
integrated design of the optical interface / for network components or terminal equipment wavelength / of the optical interface connectable optical power relative to 1 mW of the transmitter output / minimum of the transmitter output / maximum of the transmitter output / maximum optical sensitivity relating to 1 mW / of the receiver input / maximum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient temperature of uturing operation of uturing storage of uturing transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP protection		4
terminal equipment wavelength / of the optical interface connectable optical power relative to 1 mW of the transmitter output / maximum of the transmitter output / maximum of the transmitter output / maximum of the receiver input / maximum of the receiver input / maximum optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature of uring storage of uring storage of uring transport relative humidity / at 25 °C / without condensation / during operation operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height depth 275.5 mm net weight fastening method installation in media module slot yes standards, specifications, approvals standard of or safety / from CSA and UL of remitted interference UL 60950-1, CSA C22.2 No. 60950-1 of the remitted interference 1310 nm; Multi-mode 2-19 dB 310 mm; Multi-mode 0 dB -14 dB -10 dB		4
connectable optical power relative to 1 mW of the transmitter output / minimum of the transmitter output / maximum of the receiver input / maximum 3 dB optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature oldring operation oldring storage oldri		ST/BFOC
of the transmitter output / maximum of the transmitter output / maximum of the transmitter output / maximum of the receiver input / maximum optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient conditions ambient temperature oduring operation oduring storage during transport during transport relative humidity / at 25 °C / without condensation / during operation / during maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth net weight net weight of safety / from CSA and UL of or safety / from CSA and UL of or emitted interference EN 61000-6-4 (Class A)	wavelength / of the optical interface	1310 nm; Multi-mode
of the transmitter output / maximum of the receiver input / maximum optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature of during operation of during storage of during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height depth 22.3 mm depth 22.3 mm net weight fastening method installation in media module slot ves standard of ror safety / from CSA and UL of remitted interference 40 LB dB O 40 B O 5 km O 5 km O 60 °C O 60 °C O 40 485 °C O 485 °C O 485 °C O 485 °C O 40 485 °C	connectable optical power relative to 1 mW	
of the receiver input / maximum optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature outring operation outring storage during storage during transport relative humidity 1 at 25 °C / without condensation / during operation / adv. +85 °C relative humidity 1 at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 2275.5 mm net weight fastening method installation in media module slot ves standards, specifications, approvals standard of remitted interference e of the FOC transmission link / minimum od B dB dB dB dB dB dB dB dB dB	 of the transmitter output / minimum 	-19 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature • during operation • during storage • during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth net weight 0.3 kg fastening method • installation in media module slot standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference 0 dB 0 dB 0 dB 0 dB 0 5 km 0 5 km 0 5 km 0 60 °C 4 0 +85 °C 4 0 +85 °C 95 % 0 60 °C 4 0 +85 °C 95 % 96 % 97 % 98 % 99 % 99 % 1P20 design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight 0.3 kg fastening method • installation in media module slot Ves standard • for safety / from CSA and UL • for emitted interference EN 61000-6-4 (Class A)	 of the transmitter output / maximum 	-14 dB
minimum attenuation factor / of the FOC transmission link / minimum necessary range / at the optical interface / depending on the optical fiber used ambient conditions ambient conditions ambient temperature	 of the receiver input / maximum 	-3 dB
range / at the optical interface / depending on the optical fiber used ambient conditions ambient temperature • during operation • during storage • during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight fastening method • installation in media module slot *Yes standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference **O 5 km 0 60 °C - 40 +85 °C - 40 +		-32 dB
ambient temperature • during operation • during storage • during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP reletive humidity / at 25 °C / without condensation / during operation / maximum protection class IP reletive humidity / at 25 °C / without condensation / during operation / maximum protection class IP reletive humidity / at 25 °C / without condensation / during operation / maximum protection class IP reletive humidity / at 25 °C / without condensation / during operation / maximum protection class IP reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / during operation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C reletive humidity / at 25 °C / without condensation / at 0 +85 °C rele		0 dB
ambient temperature • during operation • during storage • during transport -40 +85 °C • during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight 10.3 kg fastening method • installation in media module slot standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference 0 60 °C -40 +85 °C -40		0 5 km
 during operation during storage during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design Media module width 120.3 mm height depth net weight installation in media module slot standards, specifications, approvals standard for safety / from CSA and UL for emitted interference 0.0 °C 40 +85 °C <li< td=""><td>ambient conditions</td><td></td></li<>	ambient conditions	
during storage during transport during transport relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight fastening method installation in media module slot standards, specifications, approvals standard for safety / from CSA and UL for emitted interference -40 +85 °C -40	ambient temperature	
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relative humidity / at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight fastening method installation in media module slot standards, specifications, approvals standard for safety / from CSA and UL for emitted interference Pi 95 % Media module 120.3 mm 120.3 kg 120.3 kg 121.0 kg 122.3 mm 123.3 kg 124.0 kg 125.5 mm 126.0 kg 127.5 mm 127.5 mm 128.0 kg	during storage	-40 +85 °C
operation / maximum protection class IP IP20 design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight 0.3 kg fastening method installation in media module slot standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference IP20 Media module 120.3 mm 120.3 mm 120.3 mm 120.3 mm 120.3 mm 120.3 mm 120.3 kg 120.3 k	during transport	-40 +85 °C
design, dimensions and weights design Media module width 120.3 mm height 22.3 mm depth 275.5 mm net weight fastening method installation in media module slot standards, specifications, approvals standard for safety / from CSA and UL for emitted interference Media module 22.3 mm 0.3 kg latched 275.5 mm UL 60950-1, CSA C22.2 No. 60950-1		95 %
design width 120.3 mm height 22.3 mm depth 275.5 mm net weight 6 installation in media module slot standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference Media module 22.3 mm 0.3 kg latched 120.3 mm 120.3 kg 120.3 kg 120.4 latched 120.3 mm 120.3 mm 120.3 mm 120.3 kg 120.4 latched 120.5 mm 120.6 latched	protection class IP	IP20
width height 22.3 mm depth 275.5 mm net weight 6 installation in media module slot standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference 120.3 mm 120.4 ma 120.6 essenting method 120.5 mm 120.6 essenting method 120.6 essent	design, dimensions and weights	
height depth 275.5 mm net weight 0.3 kg fastening method installation in media module slot Standards, specifications, approvals standard for safety / from CSA and UL for emitted interference 22.3 mm 275.5 mm 184.0 Latched Yes Standard UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	design	Media module
depth 275.5 mm net weight 0.3 kg fastening method latched • installation in media module slot Yes standards, specifications, approvals standard • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1 • for emitted interference EN 61000-6-4 (Class A)	width	120.3 mm
net weight fastening method installation in media module slot standards, specifications, approvals standard for safety / from CSA and UL for emitted interference 0.3 kg latched Yes Standards, specifications, approvals standard UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	height	22.3 mm
fastening method • installation in media module slot Yes standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	depth	275.5 mm
installation in media module slot Standards, specifications, approvals standard for safety / from CSA and UL for emitted interference UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	net weight	0.3 kg
standards, specifications, approvals standard • for safety / from CSA and UL • for emitted interference UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	fastening method	latched
standard • for safety / from CSA and UL • for emitted interference UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A)	 installation in media module slot 	Yes
 for safety / from CSA and UL for emitted interference UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) 	standards, specifications, approvals	
• for emitted interference EN 61000-6-4 (Class A)	standard	
	 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
• for interference immunity EN 61000-6-2	 for emitted interference 	EN 61000-6-4 (Class A)
	• for interference immunity	EN 61000-6-2

certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
CE marking	Yes
• C-Tick	Yes
KC approval	Yes
 CCC / for hazardous zone according to GB standard 	Yes
 CCC / for hazardous zone according to GB standard / as marking 	Ex nA IIC T4 Gc
● E1 approval	No
Marine classification association	
 French marine classification society (BV) 	Yes
further information / internet links	
internet link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
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