SIEMENS

Datasheet

6GK5408-8GR00-2AM2

Product type designation Product description

SCALANCE XM408-8C

SCALANCE XM408-8C; MANAGED MODULAR IE SWITCH; LAYER 3 INTEGRATED; 8 X 10/100/1000 MBIT/S RJ45; 8 X 100/1000 MBIT/S SFP; CONTAINS 8 COMBO PORTS; USABLE 8 PORTS IN TOTAL; EXPANDABLE TO 24 PORTS ELEKTRICAL OR OPTICAL; MOUNTING DIN-/S7-PROFILE-RAIL; PROFINET-IO DEVICE; REDUNDANCY FUNCTIONS; OFFICE FEATURES (RSTP, VLAN, IGMP,..); C-PLUG IN SCOPE OF SUPPLY

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical/optical connections	
 for network components or terminal equipment / maximum 	24
 as combo port / for network components or terminal equipment 	8
Number of electrical connections	
 for network components or terminal equipment 	8
 for network components or terminal equipment / with extender modules 	16
• for SFP+/SFP	8
• for operator console	1
 for management purposes 	1
 for signaling contact 	1
 for power supply 	1
 for redundant voltage supply 	1

Type of voltage supply / redundant power supply unitNoType of voltage / of the supply voltageDCSupply voltage24 V• external19.2 28.8 VProduct component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss	Design of electrical/antical compactions / for activaly	
Design of the electrical connection RJ45 port • for network components or terminal equipment RJ45 port • for operator console RJ11 port • for operator console RJ11 port • for management purposes RJ45 port • for management purposes RJ45 port • for power supply 4-pole terminal block • for fiber optic cable / at 1000 MbH/s 8 • for fiber optic cable / at 1000 MbH/s 8 • for fiber optic cable / at 1000 MbH/s 8 • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for fiber optic cable / at 1000 MbH/s SPP slot • for DC / Rated value 24 V Operating vortage / of the signaling contacts - • for DC / Rated value 24 V Operating vortage / of the signaling contacts - • for D	- ·	SFP
 for network components or terminal equipment /with extender modules for operator console RJ45 port RJ45 port RJ45 port RJ45 port RJ45 port For operator console RJ11 port RJ45 port For signaling contact 2-pole terminal block Apole terminal terminal terminal terminal terminal term		
 for network components or terminal equipment //with extender modules For operator console RU11 port RU45 port For operator console RU11 port RU45 port For signaling contact Poperating contact Poperating contact Poperating contact Poperating voltage / at 100 Mbit/s For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For fiber optic cable / att 1000 Mbit/s SFP slot For Class Path Att 2000 Mbit/s For DC / Rated value Poperating voltage / of the signaling contacts For DC / Rated value Operating current / of the signaling contacts For DC / Rated value Operating current / of the signal power supply unit No Type of voltage / of the supply voltage External Port DC / maximum Operating current / fiber optic supply voltage Fiber / 125 V Consumed current / maximum Active power loss Fiber / 125 V Consumed current / maximum Active power loss Fiber /	-	RJ45 port
/ with extender modulesNumber• for operator consoleRJ11 port• for operator consoleRJ15 port• for management purposesRJ45 port• for power supply4-pole terminal block• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for DC / Rated value2• for DC / Rated value24 V• for DC / Rated value0 1 A• for DC / maximumNoType of voltage / of the signaling contacts•• for DC / maximum12 2 28.8 V• for DC / maximum24 V• external12 2 28.8 V• protection type / at 1nput for supply voltageF 15 A / 125 V• consumed current / maximum2 A• active power loss-• for DC / at 24 V48 W• for DC / at 24 V48 W• during operation-40 +70 °C• duri		
• for management purposesRJ4S port• for signaling contact2 pole terminal block• for power supply4 pole terminal blockNumber of opticable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for DC / Rated value24 V• for DC / Rated value24 V• for DC / Rated value24 V• for DC / Rated valueDC• for DC / maximumNoType of voltage / of the signaling contacts•• for bold age supply / redundant power supply unitNoType of voltage / of the supply voltageDCSupply voltage192 28.8 VProduct component / fusing at power supply uputYes• for DC / at 24 V48.WPermitted ambient conditions24.Antive power loss••		
• for maggement purposesRJ45 port• for signaling contact> pole terminal block• for power supply4-pole terminal blockNumber of optica linterfaces8• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for DC / Rated value2• for DC / Rated value2• for DC / Rated value0.1 ASupply voltage / of the signaling contacts0.1 A• for DC / maximumNoType of voltage / of the supply voltageDC• ot voltage / of the supply voltage24 V• ot voltage / of the supply voltage24 V• ot DC / maximumNoType of voltage / of the supply voltage24 V• ot pole / at 100 for supply voltage24 V• ot pole / at 100 for supply voltage24 V• ot pole / at 24 V48 W<	 for operator console 	RJ11 port
• for signaling contact2-pole terminal block• for power supply4-pole terminal blockNumber of optical interfaces8• for fiber optic cable / at 100 Mbi/s8• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for DC / Rated value24 V• of DC / Rated value0.1 A• for DC / rated valueDC• or DC / rated value24 V• ot DC / rated value24 V• ot DC / at 24 V48 W• external19.2 28.8 V• product component / fusing at power supply valueF15 A / 125 V• consumed current / maximu		RJ45 port
• for power supply4-pole terminal blockNumber of optical interfaces8• for fiber optic cable / at 100 Mbi/s8• for fiber optic cable / at 100 Mbi/s8• for fiber optic cable / at 100 Mbi/s16Design of the optical interface16• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for fiber optic cable / at 100 Mbi/sSFP slot• for DC / fated value2Operating voltage / of the signaling contacts0.1 A• for DC / maximum0.1 ASupply voltage / of the supply voltageDC• for DC / maximum19.2 28.8 VProduct component / fusing at power supply inputYes• fuse protection type / at input for supply voltageF15 A / 125 VConsumed current / maximum2 A• for DC / at 24 V48 WPermitted ambient conditions• for DC / at 24 V48 WPermitted ambient conditions• for DC / at 24 V48 W• during storage-40 +70 °C• during storage-40 +70 °C• during transport-40 +85 °C		2-pole terminal block
Number of optical interfaces Interfaces • for fiber optic cable / at 100 Mbit/s 8 • for fiber optic cable / at 100 Mbit/s 8 • for fiber optic cable / at 100 Mbit/s 8 • for fiber optic cable / at 100 Mbit/s SFP slot • for fiber optic cable / at 100 Mbit/s SFP slot • for fiber optic cable / at 100 Mbit/s SFP slot • for fiber optic cable / at 100 Mbit/s SFP slot • for fiber optic cable / with extender modules SFP slot Number of extender expansion interfaces 2 design of the removable storage / C-PLUG/KEY- Yes PLUG Signal-Inputs/outputs Operating voltage / of the signaling contacts 0.1 A • for DC / Rated value 0.1 A Supply voltage, current / of the signal oper supply unit No Type of voltage aupply redundant power supply unit No Type of voltage of the supply voltage DC supply voltage external • external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss - • for DC / at 24 V 48 W Permetare - </td <td></td> <td>4-pole terminal block</td>		4-pole terminal block
• for fiber optic cable / at 100 Mbit/s8• for fiber optic cable / at 1000 Mbit/s8• for fiber optic cable / with extender modules16Design of the optical interface-• for fiber optic cable / at 1000 Mbit/sSFP slot• for fiber optic cable / at 1000 Mbit/sSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for fiber optic cable / with extender modulesSFP slot• for DC / Rated value2 4 V• operating voltage / of the signaling contacts-• for DC / Rated value0.1 A• for DC / maximum0.1 ASupply voltage / of the supply voltageDC• external9.2 w.28.8 V• external9.2 w.28.8 V• external9.2 w.28.8 V• external2.4 V• external2.4 V• external2.4 V• external2.4 V• for DC / at 24 V48 WPermeture / maximum2.4• for DC / at 24 V48 WPermeture-• during operation-40 +70 °C• during storage40 +85 °C• during storage-40 +85 °C		
• for fiber optic cable / at 1000 Mbit/s8• for fiber optic cable / with extender modules16Design of the optical interface		8
• for fiber optic cable / with extender modules16Design of the optical interface• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / with extender modulesSFP slotNumber of extender expansion interfaces2design of the removable storage / C-PLUG/KEY-YesPLUGSignal-Inputs/outputsOperating voltage / of the signaling contacts24 V• for DC / Rated value24 VOperating current / of the signaling contacts0.1 A• for DC / maximum0.1 ASupply voltage / of the supply voltageDCSupply voltage / of the supply uplateNoType of voltage supply / redundant power supply unitNoType of voltage / of the supply uplate24 V• external19.2 28.8 V• external19.2 28.8 V• product component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 V• for DC / at 24 V48 W• or DC / at 24 V48 W• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °C	·	8
Design of the optical interfaceSFP slot• for fiber optic cable / at 100 Mbit/sSFP slot• for fiber optic cable / at 1000 Mbit/sSFP slot• for fiber optic cable / with extender modulesSFP slotNumber of extender expansion interfaces2design of the removable storage / C-PLUG/KEY-YesPLUGYesOperating voltage / of the signaling contacts• for DC / Rated value24 VOperating current / of the signaling contacts0.1 A• for DC / maximum0.1 ASupply voltage current consumption, power lossType of voltage suppl / redundant power supply unit • externalNoType of voltage / of the supply voltageDCSupply voltage / of the supply voltageDCSupply voltage / of the supply voltage24 VOperating voltage / of the supply voltageDCSupply voltage / of the supply voltageDCSupply voltage / of the supply voltage24 V• external19.2 28.8 V• product component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2A• for DC / at 24 V48 WPermitted ambient conditions40 +70 °CAndiring operation40 +70 °C• during storage40 +85 °C• during transport40 +85 °C	•	16
 for fiber optic cable / at 100 Mbit/s for fiber optic cable / at 1000 Mbit/s for fiber optic cable / with extender modules for fiber optic cable / with extender modules SFP slot Stron DC / at 24 V Stron DC / at 24 V SFP slot Stron Stronge Strongeration Strongeration Strongeration Strongeration Strongeration Strongeration Strongeration Strongeration Strongeration Stro	-	
• for fiber optic cable / at 1000 Mbit/sSFP slot• for fiber optic cable / with extender modulesSFP slotNumber of extender expansion interfaces2design of the removable storage / C-PLUG/KEY- PLUGYesSignal-Inputs/outputsYesOperating voltage / of the signaling contacts • for DC / Rated value24 VOperating voltage, current / of the signaling contacts • for DC / maximum0.1 ASupply voltage, current consumption, power lossDCSupply voltage supply / redundant power supply unit 		SFP slot
• for fiber optic cable / with extender modulesSFP slotNumber of extender expansion interfaces2design of the removable storage / C-PLUG/KEY- PLUGYesSignal-Inputs/outputsOperating voltage / of the signaling contacts • for DC / Rated value24 VOperating current / of the signaling contacts • for DC / maximum0.1 ASupply voltage, current consumption, power lossType of voltage / of the supply voltageDCSupply voltage / of the supply voltageDCSupply voltage / of the supply voltageDCSupply voltage24 V• external19.2 28.8 VProduct component / fusing at power supply uput • externalYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss • for DC / at 24 V48 Wemtited ambient conditions-40 +70 °CAmbient temperature • during operation-40 +85 °C• during transport40 +85 °C	·	SFP slot
Number of extender expansion interfaces 2 design of the removable storage / C-PLUG/KEY- Yes Signal-Inputs/outputs Yes Operating voltage / of the signaling contacts 6 for DC / Rated value operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 0.1 A Supply voltage upply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage 0 external 24 V external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2A Active power loss 48 W e for DC / at 24 V 48 W Permitted ambient conditions -40 +70 °C Andiving operation -40 +70 °C e during storage -40 +85 °C	·	SFP slot
design of the removable storage / C-PLUG/KEY- PLUG Yes Signal-Inputs/outputs Image: Signal of the signaling contacts • for DC / Rated value 24 V Operating current / of the signaling contacts • for DC / maximum 0.1 A Supply voltage, ourrent consumption, power loss Image: Signal of the signaling contacts Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage No Supply voltage Image: Signal of the supply voltage DC Supply voltage Image: Signal of the supply voltage Image: Signal of the supply voltage external 19.2 28.8 V Image: Signal of the supply voltage Product component / fusing at power supply input Yes Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Image: Signal of the supply voltage Consumed current / maximum 2 A A Active power loss Image: Signal of the supply voltage e for DC / at 24 V 48 W Image: Signal of the supply of t	·	
PLUG Signal-Inputs/outputs Operating voltage / of the signaling contacts for DC / Rated value 24 V Operating current / of the signaling contacts for DC / maximum 0.1 A Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage No Supply voltage DC supply voltage 24 V external 24 V external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss 48 W of or DC / at 24 V 48 W	-	
Operating voltage / of the signaling contacts 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 0.1 A Type of voltage supply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC Supply voltage 24 V • external 0.1 A Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss - • for DC / at 24 V 48 W Permitted ambient conditions -40 +70 °C - during storage -40 +85 °C		
Operating voltage / of the signaling contacts 24 V Operating current / of the signaling contacts 0.1 A Supply voltage, current consumption, power loss 0.1 A Type of voltage supply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC Supply voltage 24 V • external 0.1 A Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss - • for DC / at 24 V 48 W Permitted ambient conditions -40 +70 °C - during storage -40 +85 °C	Signal-Inputs/outputs	
Operating current / of the signaling contacts • for DC / maximum0.1 ASupply voltage, current consumption, power lossNoType of voltage supply / redundant power supply unit Type of voltage / of the supply voltageNoSupply voltage / of the supply voltageDCSupply voltage	<u> </u>	
• for DC / maximum0.1 ASupply voltage, current consumption, power lossType of voltage supply / redundant power supply unitNoType of voltage / of the supply voltageDCSupply voltage• external24 V• external19.2 28.8 VProduct component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss• for DC / at 24 V48 WPermitted ambient conditionsAmbient temperature-40 +70 °C• during operation-40 +85 °C• during transport-40 +85 °C	 for DC / Rated value 	24 V
Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC • external 24 V • external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss - • for DC / at 24 V 48 W Permitted ambient conditions Ambient temperature -40 +70 °C • during storage -40 +85 °C • during transport -40 +85 °C	Operating current / of the signaling contacts	
Type of voltage supply / redundant power supply unit No Type of voltage / of the supply voltage DC Supply voltage DC • external 24 V • external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss	• for DC / maximum	0.1 A
Type of voltage / of the supply voltageDCSupply voltage24 V• external24 V• external19.2 28.8 VProduct component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss• for DC / at 24 V• for DC / at 24 V48 WPermitted ambient conditionsAmbient temperature-40 +70 °C• during operation-40 +85 °C• during transport-40 +85 °C	Supply voltage, current consumption, power loss	
Supply voltage • external 24 V • external 19.2 28.8 V Product component / fusing at power supply input Yes Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss • for DC / at 24 V Permitted ambient conditions Permitted ambient conditions Ambient temperature • during operation -40 +70 °C • during storage -40 +85 °C • during transport -40 +85 °C	Type of voltage supply / redundant power supply unit	No
• external24 V• external19.2 28.8 VProduct component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss-• for DC / at 24 V48 WPermitted ambient conditionsAmbient temperature-40 +70 °C• during operation-40 +85 °C• during transport-40 +85 °C	Type of voltage / of the supply voltage	DC
• external19.2 28.8 V• external19.2 28.8 VProduct component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss-• for DC / at 24 V48 WPermitted ambient conditionsPermitted ambient conditions• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °C	Supply voltage	
Product component / fusing at power supply inputYesFuse protection type / at input for supply voltageF 15 A / 125 VConsumed current / maximum2 AActive power loss-• for DC / at 24 V48 WPermitted ambient conditionsPermitted ambient conditionsAmbient temperature-40 +70 °C• during operation-40 +85 °C• during transport-40 +85 °C	• external	24 V
Fuse protection type / at input for supply voltage F 15 A / 125 V Consumed current / maximum 2 A Active power loss 48 W • for DC / at 24 V 48 W Permitted ambient conditions Ambient temperature -40 +70 °C • during operation -40 +85 °C • during transport -40 +85 °C	• external	19.2 28.8 V
Consumed current / maximum2 AActive power loss • for DC / at 24 V48 WPermitted ambient conditionsAmbient conditionsAmbient temperature • during operation-40 +70 °C• during storage • during transport-40 +85 °C	Product component / fusing at power supply input	Yes
Active power loss • for DC / at 24 V48 WPermitted ambient conditionsAmbient temperature • during operation-40 +70 °C• during storage • during storage-40 +85 °C• during transport-40 +85 °C	Fuse protection type / at input for supply voltage	F 15 A / 125 V
• for DC / at 24 V 48 W Permitted ambient conditions Ambient temperature • during operation -40 +70 °C • during storage -40 +85 °C • during transport -40 +85 °C	Consumed current / maximum	2 A
Permitted ambient conditions Ambient temperature • during operation • during storage • during transport	Active power loss	
Ambient temperature • during operation • during storage • during transport -40 +85 °C • during transport	• for DC / at 24 V	48 W
• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °C	Permitted ambient conditions	
 during storage during transport -40 +85 °C -40 +85 °C 		
• during transport -40 +85 °C		
	• during storage	
Relative humidity		-40 +85 °C
	Relative humidity	

• at 25 °C / without condensation / during

95 %

operation / maximum

operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Design	SIMATIC S7-1500 device design
Width	140 mm
Height	147 mm
Depth	125 mm
Net weight	1.15 kg
Mounting type	
 19-inch installation 	No
 35 mm DIN rail mounting 	Yes
wall mounting	No
 S7-300 rail mounting 	Yes
• S7-1500 rail mounting	Yes
Product properties, functions, components / ge	eneral
Cascading in cases of star topology	Any (depending only on signal propagation time)
Draduat functiona / management configuration	
	1
Product function	
Product function CLI	n Yes Yes
Product function CLI web-based management 	Yes Yes
Product function • CLI • web-based management • MIB support	Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email	Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7	Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON	Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring	Yes Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring	Yes Yes Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS	Yes Yes Yes Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis • switch-managed	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Product function • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis • switch-managed Telegram length / for Ethernet / maximum	Yes Yes Yes Yes Yes Yes Yes Yes Yes
 CLI web-based management MIB support TRAPs via email Configuration with STEP 7 RMON Port mirroring multiport mirroring CoS PROFINET IO diagnosis switch-managed 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

Yes

Yes Yes

Yes

Yes Yes

Yes Yes

Yes

• HTTP • HTTPS

• TFTP

• FTP • BOOTP

• GMRP

 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
Product function	
 Port diagnostics 	Yes
 Statistics Packet Size 	Yes
 Statistics packet type 	Yes
Error statistics	Yes
● SysLog	Yes
Product functions / VLAN	
Product function	
 VLAN - port based 	Yes
 VLAN - protocol-based 	Yes
 VLAN - IP-based 	Yes
 VLAN dynamic 	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
DHCP Option 82	Yes
DHCP Option 66	Yes
DHCP Option 67	Yes
Product functions / Routing	
Service / Routing / Note	IP routing integrated, IPv6 available soon
Product function	
Static IP routing	Yes
Static IP routing IPv6	No
 dynamic IP routing 	Yes
 dynamic IP routing IPv6 	No
Protocol / is supported	
• RIPv2	Yes

• RIPnG for IPv6

OSPFv3 for IPv6

OSPFv2

• VRRP

No

Yes

No

Yes

• VRRP for IPv6	No
Product functions / Redundancy	
Product function	
 Ring redundancy 	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby redundancy 	Yes
 Media Redundancy Protocol (MRP) 	Yes
 media redundancy protocol (MRP) with redundancy manager 	Yes
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	Yes
 redundancy procedure MSTP 	Yes
Passive listening	Yes
Protocol / is supported	
• 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
Product functions / Time	
Product function	N
SICLOCK support	Yes
Protocol / is supported	Yes
• NTP	Yes
• SNTP	
Type of time synchronization	IEEE 1588 available soon
Standards, specifications, approvals Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
 for hazardous zone 	EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1-03
 for hazardous zone / 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

EN 61000-6-4 (Class A)
EN 61000-6-2
EN 61000-6-2, EN 61000-6-4
Yes
Yes
No
No
No
28 у

Further Information / Internet Links

Security information

Internet-Link	
• to website: Selector SIMATIC NET	http://www.siemens.com/snst
SELECTION TOOL	
 to website: Industrial communication 	http://www.siemens.com/simatic-net
 to website: Industry Mall 	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx Download Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	http://support.automation.siemens.com

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)
15.12.2014

last modified: