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Data sheet 6GK5414-3FC10-2AA2

	- - spare part - - SCALANCE X414-3E, modular IE switch, 2x 10/100/1000 Mbps and 12x 10/100 Mbps RJ45 ports, 1x Gbit and 2x 100 Mbit media module slots, extender interface, integrated redundancy manager, office features (RSTP, VLAN,..) network management, C-PLUG in scope of supply.
product type designation	
product brand name	SCALANCE
product type designation	X414-3E
design of the product	2x 10/100/1000 RJ45, 12x 10/100 Mbps RJ45, 1x Gbps & 2x 100 Mbps for media modules
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	14
number of 100 Mbit/s SC ports	
● for multimode	4
interfaces / other	
number of electrical connections	
● for operator console	1
● for signaling contact	1
● for media module	3
● for power supply	1
type of electrical connection	
● for operator console	RS232
● for management purposes	RJ45
● for signaling contact	4-pole terminal block
● for power supply	4-pole terminal block
number of extender expansion interfaces	1
design of the removable storage	
● C-PLUG	Yes
product feature / hot-swappable interface modules	Yes
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	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	15 W
● consumed current / 1 / maximum	2 A
● type of electrical connection / 1 / for power supply	4-pole terminal block
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	F 3,15 A / 250 V
ambient conditions	
ambient temperature	
● during operation	-40 ... +70 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %

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protection class IP	IP20
design, dimensions and weights	
design	modular
width	344 mm
height	145 mm
depth	117 mm
net weight	3.07 kg
fastening method	
● 35 mm DIN-rail mounting	Yes
● wall mounting	No
● S7-300 rail mounting	Yes
● S7-1500 rail mounting	No
product features, product functions, product components / general	
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
● RMON	Yes
● port mirroring	Yes
● multiport mirroring	No
● CoS	Yes
● PROFINET IO diagnosis	Yes
● switch-managed	Yes
PROFINET conformity class	B
protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes
● FTP	Yes
● BOOTP	Yes
● GMRP	Yes
● DCP	Yes
● LLDP	Yes
● SNMP v1	Yes
● SNMP v2	Yes
● SNMP v3	Yes
● IGMP (snooping/querier)	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
● SysLog	Yes
product functions / VLAN	
product function	
● VLAN - port based	Yes
● VLAN - protocol-based	No
● VLAN - IP-based	No

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● VLAN dynamic	Yes
number of VLANs / maximum	64
number of VLANs - dynamic / maximum	64
product functions / DHCP	
product function	
● DHCP client	Yes
● DHCP Option 82	Yes
● DHCP Option 66	Yes
● DHCP Option 67	Yes
product functions / routing	
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	No
● OSPFv2	Yes
● OSPFv3 for IPv6	No
● VRRP	Yes
● VRRP for IPv6	No
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
● media redundancy protocol (MRP) with redundancy manager	Yes
● ring redundancy	Yes
● high speed redundancy protocol (HRP) with redundancy manager	Yes
● high speed redundancy protocol (HRP) with standby redundancy	Yes
● redundancy procedure STP	Yes
● redundancy procedure RSTP	Yes
● redundancy procedure MSTP	No
● passive listening	Yes
protocol / is supported	
● RSTP big network support	Yes
● LACP	Yes
product functions / security	
product function	
● IEEE 802.1x (radius)	Yes
● broadcast/multicast/unicast limiter	Yes
● broadcast blocking	Yes
protocol / is supported	
● SSH	Yes
product functions / time	
product function	
● SICLOCK support	Yes
protocol / is supported	
● NTP	No
● SNTP	Yes
● IEEE 1588 profile default	No
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● KC approval	Yes
standard	
● for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1-03

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standards, specifications, approvals / other	
certificate of suitability	
● railway application in accordance with EN 50155	No
product functions / general	
MTBF	18 a
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. 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 Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

China RoHS | EAC | CE EG-Konf. | Manufacturer Declaration | UL | RCM

General Product Approval	For use in hazardous locations	Maritime application	
China RoHS	FM	DNV	LRS

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