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Data sheet 6GK5204-0BA01-2AF2



SCALANCE XFM204 flat managed layer 2 IE switch; 4 x 100 Mbps RJ45 ports; redundant 24 V DC power supply; temperature range -40 °C to +60 °C; SINEC OS; PROFINET IO device CC-B; CLP slot; DIN-rail mounting;

product type designation	
product brand name	SCALANCE
product type designation	XFM204
Technical Product Detail Page	https://i.siemens.com/1P6GK5204-0BA01-2AF2
transfer rate	
transfer rate	10, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	4; RJ45
number of 10/100 Mbit/s RJ45 ports	
● with securing collar	4
interfaces / other	
number of electrical connections	
● for signaling contact	1
● for power supply	1
type of electrical connection	
● for signaling contact	2-pole terminal block
● for power supply	4-pole terminal block
design of the removable storage	
● CLP	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 supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	2.9 W
● power loss [W] / at DC / at 24 V / typical	2.4 W
● supply voltage / 1 / voltage range	19.2 ... 31.2
● consumed current / 1 / maximum	0.12 A
● consumed current / at DC / at 24 V / typical	0.1 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 1,5 A / 250 V
ambient conditions	
ambient temperature	

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● during operation	-40 ... +60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +85 °C
● note	during transport >1 year max. +40°C
ambient temperature / in horizontal mounting position / during operation	-40 ... +60 °C; Starting at -40 °C; The maximum ambient temperature during operation depends on the operating height and the plug-in transceivers, see also manual.
installation altitude / at height above sea level / maximum	4000 m
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
operating condition / fanless operation	Yes
protection class IP	IP20
design, dimensions and weights	
design	flat
width	75 mm
height	120 mm
depth	44 mm
net weight	0.175 kg
material / of the enclosure	Polycarbonate (PC-GF10)
fastening method	35 mm DIN rail according to EN 60715
● 35 mm DIN-rail mounting	Yes
● wall mounting	No
● S7-300 rail mounting	No
● S7-1500 rail mounting	No
type of cable outlet	cable outlet bottom
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 function	
● QoS according to DSCP	Yes
product feature	
● Store & Forward switching method	Yes
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	No
● SMTP server	No
● port mirroring	Yes
● multiport mirroring	No
● Encapsulated Remote Traffic Mirroring (ERTM)	No
● CoS	Yes
● PROFINET IO diagnosis	Yes
● switch-managed	Yes
PROFINET conformity class	B
network load class / according to PROFINET	III
telegram length / for Ethernet / maximum	2048 byte
protocol / is supported	
● Telnet	No
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes
● FTP	Yes
● SFTP	Yes
● BOOTP	No

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● NETCONF	Yes
● GMRP	Yes
● DCP	Yes
● LLDP	Yes
● EtherNet/IP	No
● 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
● VLAN dynamic	Yes
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
product functions / DHCP	
product function	
● DHCP server	No
● DHCP client	Yes
● DHCP Option 82	No
● DHCP Option 66	Yes
● DHCP Option 67	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
● media redundancy protocol (MRP) with redundancy manager	Yes
● Media Redundancy Protocol Interconnection (MRP-I)	No
● Media Redundancy Protocol for Planned Duplication (MRPD)	No
● of the PROFINET IO device / is supported / H-Sync forwarding	Yes
● of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
● ring redundancy	Yes
● high speed redundancy protocol (HRP) with redundancy manager	No
● high speed redundancy protocol (HRP) with standby redundancy	No
● redundancy procedure STP	Yes
● redundancy procedure RSTP	Yes
● redundancy procedure RSTP+	No
● redundancy procedure MSTP	Yes
● passive listening	Yes
● eRSTP	No
protocol / is supported	
● STP/RSTP	Yes

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● STP	No
● RSTP	Yes
● MSTP	Yes
● LACP	No
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product conformity / according to IEEE 802.1X-port based Network Access Control	Yes
product function	
● IEEE 802.1x (radius)	Yes
● RADIUS client	Yes
● broadcast/multicast/unicast limiter	No
● broadcast blocking	No
protocol / is supported	
● RADIUS	Yes
● SSH	Yes
● SSL	Yes
product functions / time	
product function	
● SICLOCK support	Yes
● NTP-client	Yes
● SNTP client	No
protocol / is supported	
● NTP	Yes
● SNTP	Yes
● IEEE 1588 profile default	No
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UKCA marking	Yes
● Regulatory Compliance Mark (RCM)	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
● for EMC interference emission	EN 61000-6-4
● for immunity to EMC	EN 61000-6-2
● for safety / from CSA and UL	in preparation
standards, specifications, approvals / other	
certificate of suitability	
● RoHS conformity	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	No
standards, specifications, approvals / marine classification	
certificate of suitability / shipbuilding approval / note	available soon
standards, specifications, approvals / Environmental Product Declaration	
Siemens eco profile (SEP)	available soon
product functions / general	
MTBF	58 a
reference temperature / for MTBF determination	40 °C
warranty period	5 a
product function / is supported / identification link	Yes
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 web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax

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● 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

Environment	General Product Approval				Industrial Commu-nication
EPD	Miscellaneous	RCM	China RoHS	CE EG-Konf.	PROFINET

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