

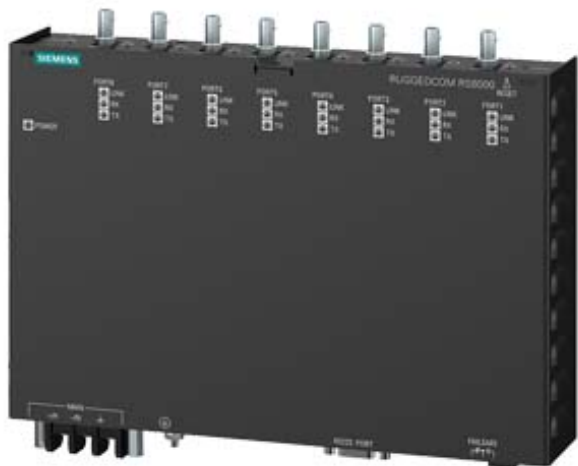
6GK6080-0AS1.-.... RUGGEDCOM RS8000NC

Technical Data

Product-type designation

RUGGEDCOM RS8000NC

RUGGEDCOM RS8000NC
HARDENED, FULLY MANAGED,
ETHERNET SWITCHES; 8 X
100BASEFX; 56-BIT ENCRYPTION;



Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	8
• remark	8 x 100FX
Number of electrical connections	
• for network components and terminal equipment	
• maximum	8
• for operator console	0
• for management purposes	0
Design of electrical connection	
• for signaling contact	3-pole terminal block, screwable
• for power supply	5-pole screw contact
Number of optical connections / for network components or terminal equipment / maximum	8
Range / at the optical interface / depending on the optical fiber used	2... 15 km

Signal-Inputs/outputs

Relay design	Form-C contact relay (SP CO)
type of the relay output	Change-over (NO/NC)
Operating current / of signaling contacts	
• at DC	

<ul style="list-style-type: none"> at 30 V / maximum 	1 A
Supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
Type of voltage / 1 / of the supply voltage	DC
Supply voltage / 1	
<ul style="list-style-type: none"> rated value 	24 V
<ul style="list-style-type: none"> rated value 	10...36 V
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
<ul style="list-style-type: none"> rated value 	48 V
<ul style="list-style-type: none"> rated value 	36...59 V
Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 3	
<ul style="list-style-type: none"> rated value 	88...300 V
Type of voltage / 4 / of the supply voltage	AC
Supply voltage / 4	
<ul style="list-style-type: none"> rated value 	85...264 V
Power loss	
<ul style="list-style-type: none"> maximum 	20 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during operating 	-40...+85 °C
<ul style="list-style-type: none"> Comment 	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Coating	Conformal Coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
Design, dimensions and weight	
Design	compact
Width	198.37 mm (7.81 in)
Height	61.72 mm (2.43 in)
Depth	248.92 mm (9.8 in)
Net weight	2.25 kg
Material / of the enclosure	18 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> Installation 19 inch 	No
<ul style="list-style-type: none"> 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> wall mounting 	Yes
Product properties, functions, components / general	
number of automatically learnable MAC addresses	8192
switch-latency period	5 µs
transfer rate / of the switch	1.6 Gbit/s
number of priority channels	2
product characteristic	

• Switching-Methode Store & Forward	Yes
• Zero-Packet-Loss technology	Yes
Product functions / management, configuration	
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• RMON	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	No
• TFTP	Yes
• SFTP	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
• SNMP v3	Yes
product function / for MIB-support	
• by BRIDGE-MIB	RFC1493
• by IF-MIB	RFC2863
• by RMON-MIB	RFC2819
• by RSTP-MIB	draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB
• by SNMPv2-MIB	RFC1907
• by SNMPv2-SMI	RFC2578
• by SNMPv2-TC	RFC2579
• by TCP-MIB	RFC2012
• by UDP-MIB	RFC2013
Product functions / VLAN	
Product function	
• VLAN - port based	Yes
Number of VLANs / maximum	64
VLAN-Identification number	1...1000
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	No
• DHCP Option 67	No

Product functions / Routing	
protocol / is supported	
<ul style="list-style-type: none"> • PPP 	Yes
Product functions / Redundancy	
Product function	
<ul style="list-style-type: none"> • redundancy procedure STP 	Yes
<ul style="list-style-type: none"> • RSTP redundancy protocol 	Yes
<ul style="list-style-type: none"> • redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> • eRSTP 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • STP 	Yes
<ul style="list-style-type: none"> • RSTP 	Yes
<ul style="list-style-type: none"> • MSTP 	Yes
Product functions / Security	
product function	
<ul style="list-style-type: none"> • IEEE 802.1x (radius) 	No
<ul style="list-style-type: none"> • RADIUS client 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • RADIUS 	Yes
<ul style="list-style-type: none"> • TACACS+ 	Yes
<ul style="list-style-type: none"> • SSL 	No
key length	
<ul style="list-style-type: none"> • at RSA 	1024 bit
Product functions / Time	
product function	
<ul style="list-style-type: none"> • SNTP-client 	Yes
<ul style="list-style-type: none"> • SNTP-server 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNTP 	Yes
Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> • for EMC 	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
<ul style="list-style-type: none"> • for safety / of CSA and UL 	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
Laser protection class	Complies with 21 CFR Chapter1, Subchapter J
Verification of suitability	
<ul style="list-style-type: none"> • CE mark 	Yes
<ul style="list-style-type: none"> • IEC 61850-3 	Yes
product conformity	
<ul style="list-style-type: none"> • according to IEEE 802.3-10BaseT 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3u-100BaseTX 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3u-100BaseFX 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3x-Flow Control 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1d-MAC Bridges 	Yes

• according to IEEE 802.1d-STP	Yes
• according to IEEE 802.1p-class of service	Yes
• according to IEEE 802.1Q-VLAN tagging	Yes
• according to IEEE 802.1w-RRST	Yes
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product conformity	
• RFC768-UDP	Yes
• RFC783-TFTP	Yes
• RFC791-IP	Yes
• RFC792-ICMP	Yes
• RFC793-TCP	Yes
• RFC826-ARP	Yes
• RFC854-Telnet	Yes
• RFC894-IP over Ethernet	Yes
• RFC1112-IGMPv1	Yes
• RFC1519-CIDR	Yes
• RFC1541-DHCP (client)	Yes
• RFC2030-SNTP	Yes
• RFC2068-HTTP	Yes
• RFC2236-IGMPv2	Yes
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Further Information / Internet Links	
Internet link	
• to website	
• Industry Mall/RUGGEDCOM Selector	http://ruggedcom-selector.automation.siemens.com
• Siemens RUGGEDCOM	http://siemens.com/ruggedcom
• Industry Mall	http://www.siemens.com/industrial-controls/mall
• selection instrument cables and connectors	http://www.siemens.com/snst
• CAx-Download-Manager	http://www.siemens.com/cax
• industrial communication	http://www.siemens.com/simatic-net
• Information und Download Center	http://www.siemens.com/automation/net/catalog
• image database	http://automation.siemens.com/bilddb
• Industry Online Support	http://support.automation.siemens.com
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letzte Änderung:	Feb 24, 2014