

6GK6096-8AS2.-.... RUGGEDCOM RS969

Technical Data

Product-type designation

RUGGEDCOM RS969

Product description

IP65/IP67 Rated...t Encrypt001



RUGGEDCOM RS969 IS AN INDUSTRIALLY HARDENED, FULLY MANAGED ETHERNET SWITCH PROVIDING DUAL FIBER OPTICAL GIGABIT ETHERNET PORTS & 8 FAST ETHERNET COPPER PORTS IN AN IP66/IP67 RATED PACKAGE. 128-BIT ENCRYPTION; FIBER OPTICAL GIGABIT ETHERNET PORTS (1000BASEX) WITH: IP66/IP67 RATED FIBER OPTICAL CONNECTORS (TYPE LC); 8-FAST ETHERNET PORTS (10/100BASETX) WITH: IP66/IP67 M12 D-CODE OR RJ45 CONNECTORS;

Transmission rate

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

Interfaces

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| Number of electrical/optical connections / for network components or terminal equipment / maximum | 10 |
| <ul style="list-style-type: none"> remark | 8 x Fast Ethernet Ports (10/100TX) + 2 Fiber Optical Gigabit Ethernet Ports |
| number of electrical/optical connections / for gigabit Ethernet / maximum | 2 |
| Number of electrical connections | |
| <ul style="list-style-type: none"> for network components and terminal equipment maximum | 8 |
| <ul style="list-style-type: none"> for gigabit Ethernet / maximum | 0 |
| <ul style="list-style-type: none"> for operator console | 1 |
| <ul style="list-style-type: none"> for management purposes | 0 |
| Design of electrical connection | |
| <ul style="list-style-type: none"> for operator console for power supply | RS232 5-pole M23 male connector, screwable |
| Number of optical connections / for network components or terminal equipment / maximum | 2 |
| Range / at the optical interface / depending on the optical fiber used | 2...90 km |

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| operating distance / of optical interface / depending of used optical fiber / at gigabit | 0.5...25 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 | |
| <ul style="list-style-type: none"> at DC 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 rated value | 24 V |
| | 10...36 V |
| Current consumed / 1 / at rated value of supply voltage / max. | 0.4 A |
| Type of voltage / 2 / of the supply voltage | DC |
| Supply voltage / 2 | |
| <ul style="list-style-type: none"> rated value rated value | 48 V |
| | 36...59 V |
| Current consumed / 2 / at rated value of supply voltage / max. | 0.2 A |
| 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 | 10 W |
| Permitted ambient conditions | |
| Ambient temperature | |
| <ul style="list-style-type: none"> during operating Comment | -40...+85 °C |
| | 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 | IP66/67 |
| Design, dimensions and weight | |
| Design | compact |
| Width | 177.8 mm (7 in) |
| Height | 196.85 mm (7.75 in) |
| Depth | () |
| Depth / remark | 9.4 cm / 3.7 inch for the RJ45 variant, 8.8 cm / 3.45 inch for the M12 variant |
| Net weight | 2.5 kg |

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| Material / of the enclosure | Cast Aluminum 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 |
| memory capacity | |
| <ul style="list-style-type: none"> • of MAC-address table | 64 Kibyte |
| <ul style="list-style-type: none"> • of message buffer / maximum | 1 Mibyte |
| switch-latency period | 7 μ s |
| transfer rate / of the switch | 5.6 Gbit/s |
| number of priority channels | 4 |
| product characteristic | |
| <ul style="list-style-type: none"> • no head-off-line-blocking | Yes |
| <ul style="list-style-type: none"> • Switching-Methode Store & Forward | Yes |
| Product functions / management, configuration | |
| Product function | |
| <ul style="list-style-type: none"> • CLI | Yes |
| <ul style="list-style-type: none"> • web-based management | Yes |
| <ul style="list-style-type: none"> • MIB support | Yes |
| <ul style="list-style-type: none"> • RMON | Yes |
| <ul style="list-style-type: none"> • switch-managed | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • Telnet | Yes |
| <ul style="list-style-type: none"> • HTTP | Yes |
| <ul style="list-style-type: none"> • HTTPS | No |
| <ul style="list-style-type: none"> • TFTP | Yes |
| <ul style="list-style-type: none"> • SFTP | Yes |
| <ul style="list-style-type: none"> • IGMP (snooping/querier) | Yes |
| number of groups / at IGMP | 256 |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • SNMP v1 | Yes |
| <ul style="list-style-type: none"> • SNMP v2 | No |
| <ul style="list-style-type: none"> • SNMP v2c | Yes |
| <ul style="list-style-type: none"> • SNMP v3 | Yes |
| product function / for MIB-support | |
| <ul style="list-style-type: none"> • by BRIDGE-MIB | RFC1493 |
| <ul style="list-style-type: none"> • by IF-MIB | RFC2863 |
| <ul style="list-style-type: none"> • by RMON-MIB | RFC2819 |
| <ul style="list-style-type: none"> • by RSTP-MIB | draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB |
| <ul style="list-style-type: none"> • by SNMPv2-MIB | RFC1907 |
| <ul style="list-style-type: none"> • by SNMPv2-SMI | RFC2578 |

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| • 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 | 255 |
| VLAN-Identification number | 1...4094 |
| 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 / Redundancy | |
| Product function | |
| • redundancy procedure STP | Yes |
| • RSTP redundancy protocol | Yes |
| • redundancy procedure MSTP | Yes |
| • eRSTP | Yes |
| Protocol / is supported | |
| • STP | Yes |
| • RSTP | Yes |
| • MSTP | Yes |
| Product functions / Security | |
| product function | |
| • IEEE 802.1x (radius) | Yes |
| protocol / is supported | |
| • TACACS+ | Yes |
| • SSH | Yes |
| • SSL | Yes |
| key length | |
| • at SSL | 128 bit |
| • at RSA | 1024 bit |
| product function / port-rate-limiting | Yes |
| adjustable port-rate-limitation | 62 kbit/s...256 Mbit/s |
| Product functions / Time | |
| product function | |
| • SNTP-client | Yes |
| • SNTP-server | Yes |
| Protocol / is supported | |
| • SNTP | Yes |
| Standards, specifications, approvals | |
| Standard | |
| • for EMC | FCC Part 15 (Class A), EN55022 |

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| | (CISPR22 Class A) |
| <ul style="list-style-type: none"> for safety / of CSA and UL | cCSAus (Compliant with CSA C22.2 No. 60950, UL 60950, EN60950) (Pending) |
| 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 |
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| 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 802.3ab-1000BaseT | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.3ad-Link Aggregation | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1d-MAC Bridges | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1d-STP | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1p-class of service | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1Q-VLAN tagging | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1w-RRST | Yes |
| <ul style="list-style-type: none"> according to IEEE 802.1x-port based Network Access Control | Yes |
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| product conformity | |
| <ul style="list-style-type: none"> RFC768-UDP | Yes |
| <ul style="list-style-type: none"> RFC783-TFTP | Yes |
| <ul style="list-style-type: none"> RFC791-IP | Yes |
| <ul style="list-style-type: none"> RFC792-ICMP | Yes |
| <ul style="list-style-type: none"> RFC793-TCP | Yes |
| <ul style="list-style-type: none"> RFC826-ARP | Yes |
| <ul style="list-style-type: none"> RFC854-Telnet | Yes |
| <ul style="list-style-type: none"> RFC894-IP over Ethernet | Yes |
| <ul style="list-style-type: none"> RFC1112-IGMPv1 | Yes |
| <ul style="list-style-type: none"> RFC1519-CIDR | Yes |
| <ul style="list-style-type: none"> RFC1541-DHCP (client) | Yes |
| <ul style="list-style-type: none"> RFC2068-HTTP | Yes |
| <ul style="list-style-type: none"> RFC2236-IGMPv2 | Yes |
| <ul style="list-style-type: none"> RFC2284-EAP | Yes |
| <ul style="list-style-type: none"> RFC2475-Differentiated Service | Yes |
| <ul style="list-style-type: none"> RFC2865-RADIUS | Yes |
| <ul style="list-style-type: none"> RFC3414-SNMPv3-USM | Yes |
| <ul style="list-style-type: none"> RFC3415-SNMPv3-VACM | Yes |
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| Further Information / Internet Links | |
| Internet link | |
| <ul style="list-style-type: none"> to website | |

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| • 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 |

letzte Änderung:

Feb 24, 2014