

6GK6008-1AS10-0... RUGGEDCOM I801NC

Technical Data

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| Product-type designation | RUGGEDCOM i801NC |
| Product description | Compact Managed Industrial Ethernet Switch with Fiber Optics, 56-bit Encryption |



THE RUGGEDCOM I801 IS A COMPACT, FULLY MANAGED ETHERNET SWITCHES DESIGNED TO OPERATE RELIABLY IN HARSH INDUSTRIAL ENVIRONMENTS. MANAGED OR UNMANAGED; REGULAR OR EXTENDED TEMPERATURE; FIBER OPTICAL OR COPPER INTERFACES; FAST OR GIGABIT ETHERNET; 56-BIT ENCRYPTION; ETHERNET PORTS: 8X 10/100TX + 1X 1000LX OR 1X 10/100/1000TX

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| Transmission rate | |
| Transfer rate / 1 | 10 Mbit/s |
| Transfer rate / 2 | 100 Mbit/s |
| Transfer rate / 3 | 1000 Mbit/s |
| Interfaces | |
| Number of electrical/optical connections / for network components or terminal equipment / maximum | 9 |
| • remark | 8 x 10/100TX + 1 x 1000LX |
| number of electrical/optical connections / for gigabit Ethernet / maximum | 1 |
| Number of electrical connections | |
| • for network components and terminal equipment | |
| • maximum | 8 |
| • for gigabit Ethernet / maximum | 1 |
| • for operator console | 1 |
| • for management purposes | 0 |
| Design of electrical connection | |
| • for operator console | RS232 |
| • for signaling contact | 3-pole terminal block, screwable |
| • for power supply | 5-pole terminal block, screwable |
| Number of optical connections / for network | 1 |

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| components or terminal equipment / maximum | |
| Range / at the optical interface / depending on the optical fiber used | 2...20 km |
| operating distance / of optical interface / depending of used optical fiber / at gigabit | 0.5...10 km |
| Signal-Inputs/outputs | |
| Relay design | Optional Form-C contact relay (SP CO) as alarm relay |
| 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 | |
| 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 |
| Power loss | |
| <ul style="list-style-type: none"> maximum | 9 W |
| Permitted ambient conditions | |
| Ambient temperature | |
| <ul style="list-style-type: none"> during operating | -20...+60 °C |
| Coating | Conformal Coating optional |
| operating condition / fanless operation | Yes |
| Protection class IP | IP40 |
| Design, dimensions and weight | |
| Design | compact |
| Width | 51 mm (2 in) |
| Height | 114 mm (4.5 in) |
| Depth | 89 mm (3.5 in) |
| Net weight | 1 kg |
| Material / of the enclosure | Heavy Duty Cast Aluminum Enclosure HazLoc Rated |
| Type of mounting | |
| <ul style="list-style-type: none"> 35 mm DIN rail mounting | Yes |
| Product properties, functions, components / general | |
| memory capacity | |
| <ul style="list-style-type: none"> of MAC-address table of message buffer / maximum | 16 Kibyte |
| | 1 Mibyte |
| switch-latency period | 8 µs |
| transfer rate / of the switch | 5.2 Gbit/s |
| number of priority channels | 4 |
| product characteristic | |
| <ul style="list-style-type: none"> no head-off-line-blocking | Yes |

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| • Switching-Methode Store & Forward | 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 | 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 / Routing | |

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| 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) | Yes |
| <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 | Yes |
| key length | |
| <ul style="list-style-type: none"> • at SSL | 128 bit |
| <ul style="list-style-type: none"> • at RSA | 1024 bit |
| product function / port-rate-limiting | Yes |
| adjustable port-rate-limitation | 128 kbit/s...8 Mbit/s |
| 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 hazardous zone | ATEX Zone 2 (IEC/EN 60079-15) |
| <ul style="list-style-type: none"> • for safety / of CSA and UL | cUL508 (UL508/CSA C22, EN61010-1) |
| Laser protection class | Complies with 21 CFR Chapter1, Subchapter J |
| Verification of suitability | |
| <ul style="list-style-type: none"> • CE mark | 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 |

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| • according to IEEE 802.3ab-1000BaseT | Yes |
| • according to IEEE 802.3ad-Link Aggregation | Yes |
| • 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 802.1Q-2005 (formerly IEEE 802.1s) MSTP | Yes |
| • according to IEEE 802.1w-RRST | Yes |
| • according to IEEE 802.1x-port based Network Access Control | 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 |
| • RFC2284-EAP | Yes |
| • RFC2475-Differentiated Service | Yes |
| • RFC2865-RADIUS | Yes |
| • RFC3414-SNMPv3-USM | Yes |
| • RFC3415-SNMPv3-VACM | 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 |

letzte Änderung:

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