

**6GK6024-8GS2.-.... RUGGEDCOM RSG2488**

Technical Data

<b>Product-type designation</b>	<b>RUGGEDCOM RSG2488</b>
<b>Product description</b>	<p><b>Advanced utility grade, high density layer 2 Ethernet Switch</b></p> <p>RUGGEDCOM RSG2488 IS A RUGGEDRATED FULLY MANAGED ETHERNET SWITCH; 128-BIT ENCRYPTION; UP TO 28 NON-BLOCKING PORTS; CONFIGURED AS: 10/100/1000TX COPPER, 100FX OR 1000SX FIBER. SUPPORT SIX 4-PORT MODULES PLUS TWO 2-PORT MODULES MIXTURE OF FIBER OPTIC OR COPPER GIGABIT PORTS WITH UP TO 28 GIG ETHERNET PORTS; 40 CEL. TO +85 CEL. OPERATING TEMPERATURE (FANLESS)</p>



<b>Transmission rate</b>	
Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s
<b>Interfaces</b>	
Number of electrical/optical connections / for network components or terminal equipment / maximum	28
<ul style="list-style-type: none"> <li>remark</li> </ul>	up to 6 x 4-port modules plus 2 x 2-port modules (total 28 ports), mixture of fiber optic or copper Gigabit ports with up to 28 Gigabit-Ethernet ports
number of electrical/optical connections / for gigabit Ethernet / maximum	28
Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components and terminal equipment</li> <li>maximum</li> </ul>	28
<ul style="list-style-type: none"> <li>for gigabit Ethernet / maximum</li> </ul>	28
<ul style="list-style-type: none"> <li>for operator console</li> </ul>	1
<ul style="list-style-type: none"> <li>for management purposes</li> </ul>	1
Design of electrical connection	
<ul style="list-style-type: none"> <li>for operator console</li> </ul>	RS232
<ul style="list-style-type: none"> <li>for management purposes</li> </ul>	RJ45
<ul style="list-style-type: none"> <li>for power supply and signaling contact</li> </ul>	10-pole terminal block, screwable or

	plugable, screw contact
Number of optical connections / for network components or terminal equipment / maximum	28
Design of optical interface / for optical waveguide	
<ul style="list-style-type: none"> <li>at 100 Mbit/s</li> </ul>	FX
<ul style="list-style-type: none"> <li>at 1000 Mbit/s</li> </ul>	SX
Range / at the optical interface / depending on the optical fiber used	2...90 km
operating distance / of optical interface / depending of used optical fiber / at gigabit	0.5...70 km
<b>Supply voltage, current consumption, power loss</b>	
product options / wide range power supply product characteristic	Yes
<ul style="list-style-type: none"> <li>voltage supply modular</li> </ul>	Yes
<ul style="list-style-type: none"> <li>voltage supply hot-swappable</li> </ul>	Yes
Type of supply voltage / redundant power supply unit	Yes
Supply voltage / at AC	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	88...264 V
<b>Type of voltage / 1 / of the supply voltage</b>	DC
Supply voltage / 1	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	10...36 V
<b>Type of voltage / 2 / of the supply voltage</b>	DC
Supply voltage / 2	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	48 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	36...72 V
<b>Type of voltage / 3 / of the supply voltage</b>	DC
Supply voltage / 3	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	88...300 V
<b>Type of voltage / 4 / of the supply voltage</b>	AC
Supply voltage / 4	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	85...264 V
Supply voltage / for DC	
<ul style="list-style-type: none"> <li>rated value</li> <li>minimum</li> <li>maximum</li> </ul>	100 V
	300 V
Product component / fusing at power supply input	Yes
<b>Permitted ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>during operating</li> </ul>	-40...+85 °C
<ul style="list-style-type: none"> <li>Comment</li> </ul>	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
<b>Design, dimensions and weight</b>	

design of display / LED panel mounted on the front or on the rear side	Yes
Design	19" rack
number of height rack units / related to 19 inch cabinet	1
Number of slots	8
Width	464.8 mm ( 18.3 in )
Height	44.2 mm ( 1.74 in )
Depth	315 mm ( 12.4 in )
Net weight	5.2 kg
Material / of the enclosure	18 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> <li>• Installation 19 inch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes
Type of mounting	Mounting Kits for different mounting options
<b>Product properties, functions, components / general</b>	
number of automatically learnable MAC addresses	8192
memory capacity	
<ul style="list-style-type: none"> <li>• of MAC-address table</li> </ul>	64 Kibyte
switch-latency period	5 $\mu$ s
product characteristic	
<ul style="list-style-type: none"> <li>• no head-off-line-blocking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Switching-Method Store &amp; Forward</li> </ul>	Yes
<b>Product functions / management, configuration</b>	
Product function	
<ul style="list-style-type: none"> <li>• CLI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• web-based management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• MIB support</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RMON</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• switch-managed</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• HTTPS</li> </ul>	No
<ul style="list-style-type: none"> <li>• TFTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IGMP (snooping/querier)</li> </ul>	Yes
number of groups / at IGMP	256
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v2</li> </ul>	No
<ul style="list-style-type: none"> <li>• SNMP v2c</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>	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
<b>Product functions / VLAN</b>	
Product function	
• VLAN - port based	Yes
Number of VLANs / maximum	255
VLAN-Identification number	1...4094
Protocol / is supported / GVRP	Yes
<b>Product functions / DHCP</b>	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	No
• DHCP Option 67	No
<b>Product functions / Redundancy</b>	
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
<b>Product functions / Security</b>	
product function	
• IEEE 802.1x (radius)	Yes
protocol / is supported	
• TACACS+	Yes
• SSL	Yes
key length	
• at SSL	128 bit
• at RSA	1024 bit
product function / port-rate-limiting	Yes
<b>Product functions / Time</b>	
product function	
• SNTP-client	Yes
• SNTP-server	Yes

Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes
<b>Standards, specifications, approvals</b>	
Standard	
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	IEC 61000-6-2, IEEE 1613 Class 2, IEC 61850-3, IEC 61800-3
Verification of suitability	
<ul style="list-style-type: none"> <li>• CE mark</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes
Accessories	mounting kits, port modules, power supplies, cables, connectors additional available
<b>Further Information / Internet Links</b>	
Internet link	
<ul style="list-style-type: none"> <li>• to website</li> </ul>	
<ul style="list-style-type: none"> <li>• Industry Mall/RUGGEDCOM Selector</li> </ul>	<a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a>
<ul style="list-style-type: none"> <li>• Siemens RUGGEDCOM</li> </ul>	<a href="http://siemens.com/ruggedcom">http://siemens.com/ruggedcom</a>
<ul style="list-style-type: none"> <li>• Industry Mall</li> </ul>	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
<ul style="list-style-type: none"> <li>• selection instrument cables and connectors</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• Information und Download Center</li> </ul>	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
<ul style="list-style-type: none"> <li>• image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• Industry Online Support</li> </ul>	<a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>
<b>letzte Änderung:</b>	Feb 24, 2014