

### Product type designation

Product description

### RUGGEDCOM WIN5158-5-DC

Vehicular Subscriber with external antenna connectors  
 RUGGEDCOM WIN5158-5-DC Vehicular subscriber with external antenna connectors, RF cables (5 meters), 5 meter power cable (both vehicular and external power supply usage) and mounting kit, 5725 MHz to 5850 MHz, Direct 10-30 VDC input with separate Ethernet connector, equipped with DC power cable, data cable ordered separately



Operating frequency	5725 ... 5850 MHz
Standard for wireless communication / IEEE 802.16e-2009	Yes
Operating mode / Time-division duplexing (TDD)	Yes
Size of channel bandwidths	3,5 / 5 / 7 / 10 MHz
Frequency resolution	250 kHz
Transmission mode / for multiple input multiple output (MIMO)	MRC/STC (downlink)
Number of electrical connections / for external antenna(s)	2
Type of electrical connection / for external antenna(s)	N-Connect female
Transmit power / maximum	0.125 W
Transmit power level / adjustable	54 dB
Size of Fast Fourier Transform (FFT) channels	1024/512FFT
Type of modulation	QPSK, 16-QAM, 64-QAM
Dynamic range / of receiver	70 dB
<b>Transfer rate</b>	
Transfer rate	

<ul style="list-style-type: none"> <li>• for Industrial Ethernet</li> <li>• Note</li> </ul>	10 ... 100 Mbit/s half / full duplex with autonegotiation
Telegram format	DSCP/IP TOS field, IP Protocol/Next Header field, IP masked Source Address, IP Destination Address, Protocol source port range, Protocol destination port range, Source MAC address (SA mode), Destination, MAC address (SA mode), VLAN ID (SA mode), Ethertype (SA mode)

#### Supply voltage, current consumption, power loss

Type of voltage supply	External
Supply voltage	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	10 ... 30 V
Type of voltage / of the supply voltage	DC
<b>Supply voltage / 1 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Supply voltage / 1 / rated value</li> <li>• Type of voltage / 1 / of the supply voltage</li> </ul>	10 ... 30 V DC

#### Product functions / management, configuration, engineering

Number of manageable IP addresses / in client	2
Product function	
<ul style="list-style-type: none"> <li>• web-based management</li> <li>• MIB support</li> </ul>	Yes Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v2</li> <li>• SNMP v2c</li> </ul>	Yes Yes

#### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-40 ... +75 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Operating condition / fanless operation	Yes
Protection class IP	IP67

#### Design, dimensions and weight

Width	249 mm
Height	80.1 mm
Depth	92.2 mm
Net weight	1.5 kg
Mounting type	
<ul style="list-style-type: none"> <li>• wall mounting</li> <li>• mast mounting</li> </ul>	Yes Yes

#### Product features, product functions, product components / general

Product function / SysLog	Yes
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#### Product functions / DHCP

Product function	
<ul style="list-style-type: none"> <li>• DHCP client</li> </ul>	Yes

### Product functions / Security

Type of authentication	EAP-TTLS/TLS PKMv2
<ul style="list-style-type: none"> <li>• for device</li> <li>• for user</li> </ul>	X.509 certificates MS-CHAP or RADIUS
Product function	
<ul style="list-style-type: none"> <li>• ACL - MAC-based</li> <li>• IEEE 802.1x (radius)</li> </ul>	Yes No
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v3</li> <li>• HTTPS</li> <li>• SFTP</li> <li>• SSH</li> </ul>	Yes Yes Yes Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for FM</li> <li>• for hazardous zone</li> <li>• for safety / from CSA and UL</li> <li>• for corrosion</li> </ul>	FCC Part 15, subpart B, class B Class 1 Div 2 (UL 1604, CSA 22.2 No213- M1987), ATEX Zone 2 (EN 60079-0, EN 60079-15) TUV-UL 60950-1, EN 60950-1, CSA C22 MIL-STD-810F 509.4 - salt fog
Wireless approval	RS-210, FCC part 15C

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Industry Mall/RUGGEDCOM selector</li> <li>• to website: Siemens RUGGEDCOM</li> <li>• to website: Selector for cables and connectors</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a>  <a href="http://siemens.com/ruggedcom">http://siemens.com/ruggedcom</a> <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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