

Product type designation

Product description

RUGGEDCOM WIN5158-5-AC

Vehicular Subscriber with external antenna connectors
 RUGGEDCOM WIN5158-5-AC 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, Standard Commercial Grade AC power injector - power/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
Transfer rate	
Transfer rate	

<ul style="list-style-type: none"> • for Industrial Ethernet • Note 	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

Product options / wide range power supply	Yes
Type of voltage supply	Power over Ethernet with PoE-Injector type WIN1010: 85-265 VAC (included) / with PoE-Injector type RP100/110: 10-60 VDC or 88-300VDC and 85-264 VAC (optional)
Type of voltage supply / Power-over-Ethernet (PoE)	Yes
Supply voltage / 1 / Rated value	
<ul style="list-style-type: none"> • Supply voltage / 1 / rated value • Type of voltage / 1 / of the supply voltage 	10 ... 52 V DC
Supply voltage / 2 / Rated value	
<ul style="list-style-type: none"> • Supply voltage / 2 / rated value • Type of voltage / 2 / of the supply voltage 	88 ... 300 V DC
Supply voltage / 3 / Rated value	
<ul style="list-style-type: none"> • Supply voltage / 3 / rated value • Type of voltage / 3 / of the supply voltage 	85 V ... 264 V AC

Product functions / management, configuration, engineering

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

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-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	253.7 mm
Height	98.3 mm
Depth	92.2 mm
Net weight	1.5 kg

Mounting type	
<ul style="list-style-type: none"> • wall mounting 	Yes
<ul style="list-style-type: none"> • mast mounting 	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"> • DHCP client 	Yes

Product functions / Security

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

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for FM 	FCC Part 15, subpart B, class B
<ul style="list-style-type: none"> • for hazardous zone 	Class 1 Div 2 (UL 1604, CSA 22.2 No213- M1987), ATEX Zone 2 (EN 60079-0, EN 60079-15)
<ul style="list-style-type: none"> • for safety / from CSA and UL 	TUV-UL 60950-1, EN 60950-1, CSA C22
<ul style="list-style-type: none"> • for corrosion 	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"> • to website: Industry Mall/RUGGEDCOM selector 	http://ruggedcom-selector.automation.siemens.com
<ul style="list-style-type: none"> • to website: Siemens RUGGEDCOM 	http://siemens.com/ruggedcom
<ul style="list-style-type: none"> • to website: Selector for cables and connectors 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

Security information

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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