

product type designation	WIN5149-5-DC
product description	Vehicular Subscriber with external antenna connectors
	Vehicular Subscriber -with external antenna connectors, RF cables (5 meters), 5 meter power cable (both vehicular and external power supply usage) and mounting kit, 4900MHz to 5000 MHz, Direct 10-30VDC input with separate Ethernet connector, equipped with DC power cable, data cable ordered separately
product brand name	RUGGEDCOM
<b>wireless &amp; modem</b>	
operating frequency	4900 ... 5000 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	0.25 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 / for Industrial Ethernet	10, 100 Mbit/s
transfer rate / note	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)
<b>supply voltage, current consumption, power loss</b>	
type of voltage supply	External
supply voltage / rated value	10 ... 30 V
•	
type of voltage / of the supply voltage	DC
<b>supply voltage / 1 / rated value</b>	24 V
• supply voltage / 1 / rated value	10 ... 30 V
• type of voltage / 1 / of the supply voltage	DC
<b>product functions / management, configuration, engineering</b>	
number of manageable IP addresses / in client	2
product function	
• web-based management	Yes
• MIB support	Yes
protocol / is supported	
• SNMP v2	Yes
• SNMP v2c	Yes
<b>ambient conditions</b>	
ambient temperature	
• 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
<b>design, dimensions and weights</b>	
width	249 mm

height	80.099 mm
depth	92.2 mm
net weight	1.5 kg
fastening method	
• wall mounting	Yes
• mast mounting	Yes
<b>product features, product functions, product components / general</b>	
product function / SysLog	Yes
<b>product functions / DHCP</b>	
product function	
• DHCP client	Yes
<b>product functions / security</b>	
type of authentication	EAP-TTLS/TLS PKMv2
• for device	X.509 certificates
• for user	MS-CHAP or RADIUS
product function	
• ACL - MAC-based	Yes
• IEEE 802.1x (radius)	No
protocol / is supported	
• SNMP v3	Yes
• HTTPS	Yes
• SFTP	Yes
• SSH	Yes
<b>standards, specifications, approvals</b>	
standard	
• for FM	FCC Part 15, subpart B, class B
• for hazardous zone	Class 1 Div 2 (UL 1604, CSA 22.2 No213- M1987)
• for safety / from CSA and UL	TUV-UL 60950-1, EN 60950-1, CSA C22
• for corrosion	MIL-STD-810F 509.4 - salt fog
wireless approval	RS-111, FCC part 90 Y
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to website: Industry Mall/RUGGEDCOM selector	<a href="https://www.siemens.com/ruggedcom-selector">https://www.siemens.com/ruggedcom-selector</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to website: Siemens RUGGEDCOM	<a href="https://www.siemens.com/ruggedcom">https://www.siemens.com/ruggedcom</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)

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