

product type designation	WIN5135-5-AC
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, 3400 MHz to 3600 MHz , Standard Commercial Grade AC power injector - power/data cable ordered separately
product brand name	RUGGEDCOM
wireless & modem	
operating frequency	3400 ... 3600 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	0.5 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 / 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)
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	48 V
• supply voltage / 1 / rated value	10 ... 52 V
• type of voltage / 1 / of the supply voltage	DC
supply voltage / 2 / rated value	
• supply voltage / 2 / rated value	88 ... 300 V
• type of voltage / 2 / of the supply voltage	DC
supply voltage / 3 / rated value	
• supply voltage / 3 / rated value	85 V ... 264 V
• type of voltage / 3 / of the supply voltage	AC
product functions / management, configuration, engineering	
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
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 weights	
width	253.699 mm
height	98.3 mm
depth	92.2 mm
net weight	1.5 kg
fastening method	
<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
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 	ETSI EN 301489-1/4
<ul style="list-style-type: none"> for hazardous zone 	Class 1 Div 2 (UL 1604, CSA 22.2 No213- M1987)
<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
certificate of suitability	
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> EC Declaration of Conformity 	Yes
wireless approval	ETSI EN 302 326-1/2/3
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to website: Industry Mall/RUGGEDCOM selector 	https://www.siemens.com/ruggedcom-selector
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to website: Siemens RUGGEDCOM 	https://www.siemens.com/ruggedcom
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://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 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

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