

product type designation	<b>WIN7015-5-SFD</b>
	RUGGEDCOM WIN7015-5-SFD High Power Base Station, includes power supply, 2x antenna cable 1.6 m, internal GPS receiver, GPS antenna and 0.9 m GPS antenna cable and mounting kit; antenna and data cable ordered separately, singlemode fiber optic interface, DC power option, 1400 MHz to 1525 MHz
product brand name	RUGGEDCOM
<b>wireless &amp; modem</b>	
operating frequency	1400 ... 1525 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
number of electrical connections / for external antenna(s)	2
type of electrical connection / for external antenna(s)	N-Connect female
transmit power / maximum	3 W
size of Fast Fourier Transform (FFT) channels	1024/512FFT
type of modulation	QPSK, 16-QAM, 64-QAM
<b>transfer rate</b>	
transfer rate / for Industrial Ethernet	1000
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	37 ... 60 V
type of voltage / of the supply voltage	DC
<b>supply voltage / 1 / rated value</b>	54 V
<b>product functions / management, configuration, engineering</b>	
number of manageable IP addresses / in client	1
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 ... +65 °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	290 mm
height	756 mm
depth	195 mm
net weight	15 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 / security</b>	
type of authentication	
• for user	RADIUS
product function	
• 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	ETSI EN 301 489-4 V1.3.1, ETSI EN 301 489-1 V1.8.1, 1613 section 6.3, 7, 8, 9 Class 1, IEC 61850-3 section 5.7, 5.8
• for safety / from CSA and UL	EN 60950-22, TUV 60950-1, IEC 60950-1
• for corrosion	MIL-STD-810F 509.4 - salt fog
certificate of suitability	
• IEC 61850-3	Yes
• IEEE 1613	Yes
wireless approval	NTC Type Approval
<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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