

Антенны

Описание

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Sales and delivery release RUGGEDCOM RX1400 + WLAN (Europe and Canada) and RUGGEDCOM ANT1995-4MM

PD PA CI releases the following products for sales and delivery: - RUGGEDCOM RX1400 + WLAN for usage in Europe & Canada - RUGGEDCOM ANT1995-4MM

1. Product description

The RUGGEDCOM RX1400 + WLAN, thanks to its compact form factor and multi-function capability, offers a cost saving solution for large scale deployments by avoiding the need for multi-device solutions to achieve the needed interface, switching, routing and application hosting capabilities. The IEEE802.11 standard has long been the most common wireless technology and its applications are endless. Its global availability makes it the ideal wireless connectivity method.



The addition of WLAN extends the benefits of RX1400 even more and includes:

Advanced feature set

Price sensitive product for Distribution Automation and Secondary Substation automation with an advanced feature set.

Compact cellular router

Meeting the demands for a compact solution for field deployment.

Performance

Expanding the existing RX family by providing more types of connectivity and with higher performance.

Providing a full wireless solution

Bringing WLAN and LTE into one compact box to create a fully wireless network device.

With the WLAN we are also introducing a new antenna with multi wireless functionalities:

The new RUGGEDCOM ANT1995-4MM is an all-in-one antenna combining 2 cellular, 2 wireless LAN and 1 GPS antenna into one compact antenna. The antenna is ideally suitable for mounting on top of enclosures or vehicles and is the ideal antenna to combine with a RX1400 + WLAN.



2. Ordering information

2.1 RUGGEDCOM RX1400

The WLAN module for the RUGGEDCOM RX1400 is a factory installed option only, and does not allow for installation in the field.

Wireless LAN is only supported on devices running ROX II v2.10 or later.

Product name	Article number
RUGGEDCOM RX1400 + WLAN (EU + Canada)	6GK6014-0AM2.-0.A.-Z B02

2.2 RUGGEDCOM RX1400 Accessories

Antennas

Product name	Description	Number
All-in-one (Cellular, WLAN & GPS)		
ANT1995-4MM	Antenna for LTE (4G), WLAN networks and GPS, omni-directional characteristics, 5 x N-Female connectors, LTE: 2.5dBi, WLAN: 3-4 dBi, IP67 (-40-+85 Celcius); Mounting on cabinets or roof of vehicles.	6GK6000-8NS01-1AA0 ⁽²⁾
Cellular		
ANT1096-4MA	Direct mount omni-directional antenna for GSM (2G), UMTS (3G) and LTE 94G networks with SMA connector with radial swiveling joint.	6GK6000-8NT01-0AA0
ANT1096-4ME	Detached omni-directional antenna for GSM (2G), UMTS (3G) and LTE (4G networks with N-female connector.	6GK6000-8NT01-1AA0
GPS		
ANT1390-4ML	Detached GPS antenna with a 30 cm long fixed connecting cable and an N-Connect female Connector.	6GK6000-8NP01-1AA0 ⁽²⁾
Wireless LAN		
ANT795-4MA	3 dBi direct mount omni-directional antenna for 2.4 GHz or 5 dBi for 5GHz WLAN with R-SMA connector with radial swiveling joint.	6GK5795-4MA00-0AA3 ⁽¹⁾
ANT792-6MN	6 dBi omni-directional antenna for 2.4 GHz WLAN with N-Connect female connector. Suitable for wall or mast mounting.	6GK5792-6MN00-0AA6 ^(1,2)
ANT793-6MN	5 dBi omni-directional antenna for 5 GHz WLAN with N-Connect female connector. Suitable for wall or mast mounting.	6GK5793-6MN00-0AA6 ^(1,2)
ANT795-6MN	6 dBi omni-directional antenna for 2.4 or 8 dBi for 5 GHz WLAN with N-Connect female connector. Suitable for roof or mast mounting.	6GK5795-6MN10-0AA6 ^(1,2,4)
ANT795-6DC	9 dBi sector antenna for 2.4/5 GHz WLAN with N-Connect female connector. Suitable for wall or mast mounting.	6GK5795-6DC00-0AA0 ^(1,2,4)
ANT793-6DG	9 dBi dual-slant sector antenna for 5 GHz WLAN with 2 x N-Connect female connectors. Suitable for wall or mast mounting.	6GK5793-6DG00-0AA0 ^(1,2,3)
ANT792-8DN	14 dBi directional antenna for 2.4 GHz WLAN with N-Connect female connector. Suitable for wall or mast mounting.	6GK5792-8DN00-0AA6 ^(1,2)
ANT793-8DJ	18 dBi dual-slant directional antenna for 5 GHz WLAN with 2 x N-Connect female connectors. Suitable for wall or mast mounting.	6GK5793-8DJ00-0AA0 ^(1,2,3)
ANT793-8DK	23 dBi dual-slant directional antenna for 5 GHz WLAN with 2 x N-Connect female connectors. Suitable for wall or mast mounting.	6GK5793-8DK00-0AA0 ^(1,2)
ANT793-8DP	13.5 dBi directional antenna for 5 GHz WLAN with N-Connect female connector. Suitable for wall or mast mounting.	6GK5793-8DP00-0AA0 ^(1,2,3)

(1) = Antennas will be delivered from Germany, separately from the RUGGEDCOM RX1400

(2) = Antenna requires cable in order to connect to RUGGEDCOM RX1400

(3) = Antenna is not allowed in Canada

(4) = Antenna is not allowed for 5Ghz use in Canada

Antenna system parts

Product name	Description	Article number
Cellular/GPS Antenna cables		
	Antenna cable N-Connect male/SMA male 1 m.	6GK6000-8VH10-1FB0
	Antenna cable N-Connect male/SMA male 2 m.	6GK6000-8VH20-1FB0
	Antenna cable N-Connect male/SMA male 5 m.	6GK6000-8VH50-1FB0
Wireless LAN cables		
	Antenna cable N-Connect male/R-SMA male 1 m.	6XV1875-5TH10 ⁽¹⁾
	Antenna cable N-Connect male/R-SMA male 2 m.	6XV1875-5TH20 ⁽¹⁾
	Antenna cable N-Connect male/R-SMA male 5 m.	6XV1875-5TH50 ⁽¹⁾
Extension Cables		
	Antenna cable N-Connect male 1 m.	6GK6000-8VH10-1FF0
	Antenna cable N-Connect male 2 m.	6GK6000-8VH20-1FF0
	Antenna cable N-Connect male 5 m.	6GK6000-8VH50-1FF0
Miscellaneous		
	19" rack mount kit for RX1400	6GK6000-8MT00-0AA0
	1GB MicroSD CARD	6GK6000-8HT01-0SA0
	4GB MicroSD CARD	6GK6000-8HT01-0SA2
TI975-1R	Termination impedance (R-SMA), 3 pieces	6GK5795-1TR10-0AA6 ⁽¹⁾
LP798-2N	Lightning protector for WLAN	6GK5798-2LP10-2AA6 ⁽¹⁾

(1) = Parts will be delivered from Germany, separately from the RUGGEDCOM RX1400

3. New features

New features of the RUGGEDCOM RX1400 + WLAN:

- Access point or Client mode

- 802.11 b/g/n Support in 2.4Ghz and 5Ghz

- 20Mhz and 40Mhz bandwidth support

- Dual AP SSID options

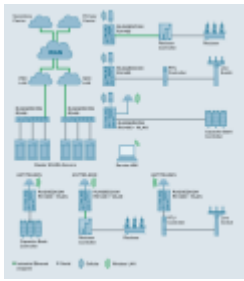
- Access Point bridging for VPE connectivity or cellular tethering

- Dual antenna support for MIMO

- Antenna connection with reverse-SMA to ensure different connection type than GPS or LTE antennas

4. Application example

The RUGGEDCOM RX1400 enables the connection of modern and legacy devices used within Distributed Automation. The addition of Wireless LAN enables for wireless access to the network at the same time.



Product modification

With the release of the WLAN capabilities in the RUGGEDCOM RX1400, we are also introducing changes to the RX1400 faceplate to accommodate the additional two required antenna connectors.

The new faceplate uses a special “plug” when there is no antenna connector. The plug cannot be removed from the outside. The antenna types are not marked as “LTE” or “GPS”, but instead as “ANT1”, “ANT2”, and so on to “ANT5”. Physical differences in the connectors ensure the LTE antennas will not be connected to the WLAN antennas or vice versa: The LTE connections are SMA, while the WLAN are R-SMA. The different configurations will be designed as follows:

No wireless modules



LTE/GPS, no WLAN



WLAN, no LTE/GPS



LET/GPS & WLAN



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