Exhibit 8 Manuals - Confidential



Remote Radio Unit Description RRUS 32

Description

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Remote Radio Unit Description

1 Introduction

This document describes the Remote Radio Unit multi-Standard (RRUS) 32.

Remote Radio Unit (RRU) is often used as a generic expression for a remotely installed Radio Unit (RU).

1.1 Warranty Seal

The product is equipped with a warranty seal sticker.

Note: Seals that have been implemented by Ericsson must not be broken or removed, as it otherwise voids warranty.

2 Product Overview

The RRU remotely extends the reach of the RBS by up to 10 km. It is designed to be located near the antenna. A fiber optic cable connects the RRU to the RBS main unit or an expanded macro RBS. The RRUs can be connected in a cascade configuration and a star configuration with optical cable links.

The RRU is only intended for vertical mounting.

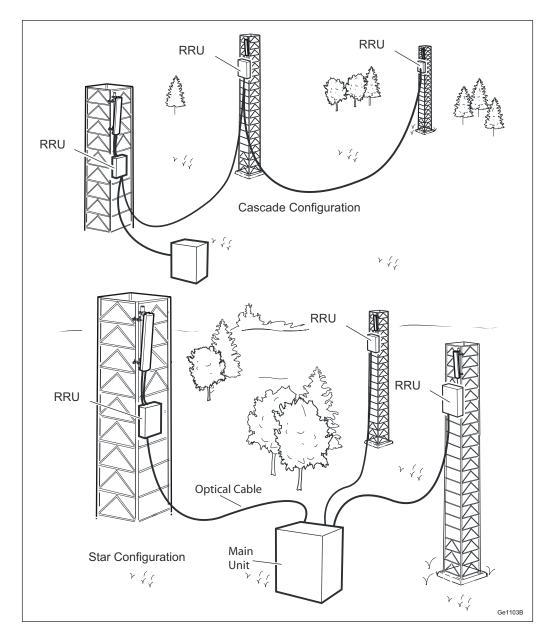


Figure 1 RRU in Star and Cascade Configuration

2.1 Main Features

Depending on the software application, the RRU supports the Antenna Line Devices (ALD), or the Remote Electrical Tilt Unit (RETU). The RETU can be connected either through the Antenna System Controller (ASC) or the RET Interface Unit (RIU) using the RRU ALD interface, which is used for Remote Electrical Tilt (RET) control. The RET interface on the RRU is the link to the antenna communication system. See Figure 9 and Figure 11 for information about the RRU connection interface for ALD (RET).

Depending on product, the RRU supports GSM, WCDMA, LTE FDD and Massive IoT (MI). The RRU has four duplex transmitter/receiver branches (4TX/4RX).

RRUS 32 B2 can support GSM, WCDMA and LTE, operating simultaneously on the same radio, with up to two standards configured on the same TX branch. For more information, refer to *Mixed Mode Radio*.

2.2 Optional Equipment

The optional equipment for the RRU is the following:

- Wall installation equipment
- Pole or mast installation equipment



3 Technical Data

This section contains information about the physical characteristics, environmental data, and the power supply of the RRU.

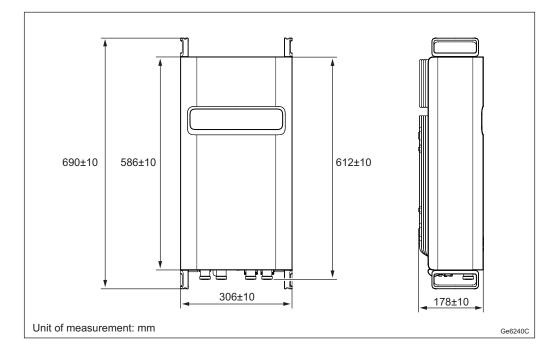
3.1 Dimensions

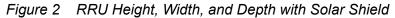
Table 1 RRUS 32 Technica

Description	Value
Maximum total output power, subject to license handling. ^{(1) (2)}	B2, B3, B4, B7, B7A, B66A: 4×5 W, 4×10 W, 4×15 W, 4×20 W, 4×25 W, 4×30 W, 4×35 W, and 4×40 W
	B30: 4×5 W, 4×10 W, 4×15W, 4×20 W, and 4×25 W
	Hardware Activation Code (HWAC) is required for total output power over 20 W.
Number of carriers ⁽³⁾ ,	GSM ⁽⁶⁾ : 1–8 carriers
subject to license handling. ⁽¹⁾	WCDMA: 1–8 carriers
	LTE: 1–3 carriers (1–2 carriers for B30)
	MI, NB-IoT In-band mode: 1–3 carriers (1–2 carriers for B30) ⁽⁴⁾
	MI, NB-IoT standalone mode: 1 carrier per port.
	MI, NB-IoT guardband mode: One Physical Resource Block (PRB) on either side of the LTE carrier, or one PRB on each side of the LTE carrier.
	Mixed mode GSM+WCDMA: 2–12 carriers
	Mixed mode GSM+LTE: 2–11 carriers
Frequency ⁽⁵⁾	1850–1910 MHz uplink
	1930–1990 MHz downlink
	B2 for LTE FDD, GSM ⁽⁶⁾ , WCDMA, MI NB-IoT in- band mode, MI NB-IoT standalone mode, MI NB- IoT guardband mode
	1710–1785 MHz uplink
	1805–1880 MHz downlink
	B3 for LTE FDD, GSM and MI $^{(6)}$

Description	Value	
	1710–1755 MHz uplink	
	2110–2155 MHz downlink	
	B4 for LTE FDD, WCDMA and MI	
	2500–2570 MHz uplink	
	2620–2690 MHz downlink	
	B7 for LTE FDD and MI	
	2500–2560 MHz uplink	
	2620–2680 MHz downlink	
	B7A for LTE FDD and MI	
	2305–2315 MHz uplink	
	2350–2360 MHz downlink	
	B30 for LTE FDD and MI	
	1710–1780 MHz uplink	
	2110–2180 MHz downlink	
	B66A for LTE FDD, WCDMA, MI NB-IoT in-band mode, MI NB-IoT standalone mode, MI NB-IoT guardband mode	
Dimensions without Sola	ar Shield and Handle ⁽⁷⁾	
Height	586 mm	
Width	291 mm	
Depth	162 mm	
Dimensions with Solar S	hield and Handle ⁽⁷⁾	
Height	690 mm	
Width	306 mm	
Depth	178 mm	
Weight without Solar Shield and Handle		
RRUS 32 B2, B3, B4, B7, B7A, B30, B66A	23 kg	
Weight with Solar Shield and Handle		
RRUS 32 B2, B3, B4, B7, B7A, B30, B66A	24 kg	
Color		
Body	NCS S 6502-B	
Solar Shield	NCS S 1002-B	

- (1) Detailed information about WCDMA and LTE licenses can be found in License Management and Managed Licenses
- (2) Detailed information about output power can be found in the applicable Output Power feature description.
- (3) Carrier allocation and number of carriers can vary depending on the band, detailed information can be found in RBS Configurations
- (4) One NB-IoT carrier per configured LTE carrier
- (5) Information about Instantaneous Bandwidth (IBW) can be found in RBS Configurations.
- (6) GSM only applies to Mixed Mode.
- (7) Dimensions are given with ±10 mm tolerance





3.2 Installation Recommendations

To achieve reliable operation, and maximum performance, an appropriate installation location must be chosen.

3.2.1 Indoor Installation Environments to Avoid

Although the unit is designed for outdoor use, it can also operate in an indoor environment according to ETSI 300 019-1-3 class 3.1 and 3.3. This does not cover installation with heat traps or installation in lofts, where air ventilation does not exist. For smooth performance of the product, ensure that the planned installation site for the unit is not a potential microclimate location. This typically occurs in places such as unventilated lofts, sites with heat traps, or sites where the product is exposed to direct sunlight through windows. Ensure proper ventilation and avoid installing the equipment under glass covers or skylight windows.

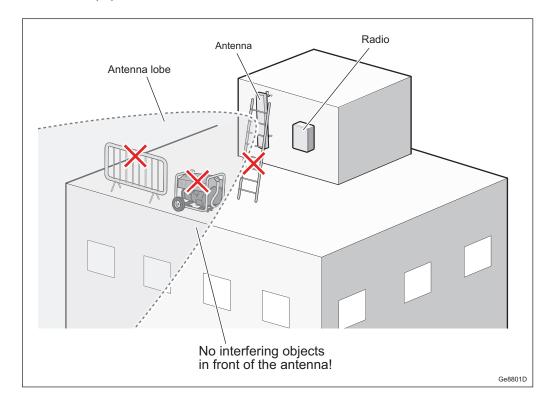
3.2.2 Outdoor Installation Environments to Avoid

The RRU is designed for outdoor use but to ensure optimal operation avoid the following:

- Hot microclimates caused, for example, by heat radiated or reflected from dark or metallic walls or floors
- Chimney mouths or ventilation system outlets
- Large glass or concrete surfaces

Avoid radio interference by keeping the area directly in front of the antenna clear of the following:

- Metal surfaces or objects such as railings, ladders, or chains
- Equipment generating electromagnetic fields, such as electric motors in air conditioners or diesel generators



RBS equipment

3.3 Space Requirements

The RRU can be installed in one of the following ways:

- Single unit on a pole or mast (1)
- Single unit on a wall (2)
- Dual unit back-to-back on a pole or mast (3)
- Dual unit back-to-back on a wall (4)
- Triple unit on a pole or mast (5)

Figure 3 shows the installation alternatives.

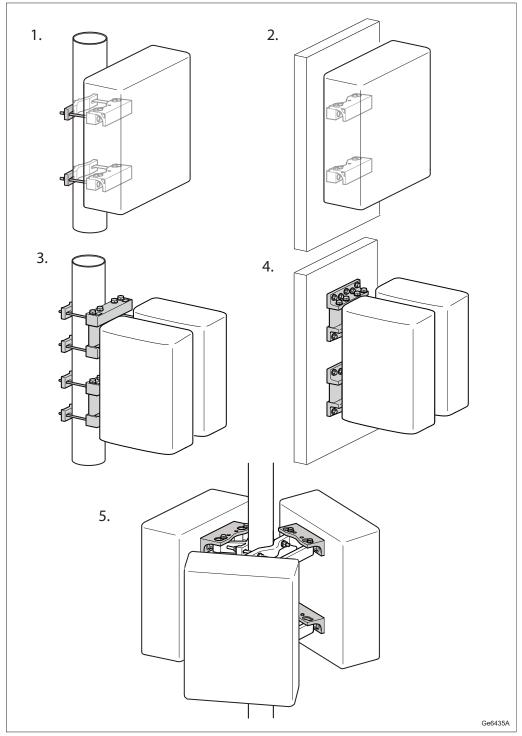


Figure 3 Installation Alternatives

Note: The RRU only supports vertical mounting.

3.3.1 Generic Requirements

The RRU is installed with the cable connections facing downward.

There must be sufficient working space in front of the RRU.

It is recommended that the RRU is installed below the antenna. The minimum distances between the RRU and the antenna, and between two RRUs are shown in Figure 4, Figure 6, and Figure 7.

Note: The distance between the antenna and the RRU must be increased if the antenna azimuth is in the direction of the RRU.

3.3.2 Pole Installation

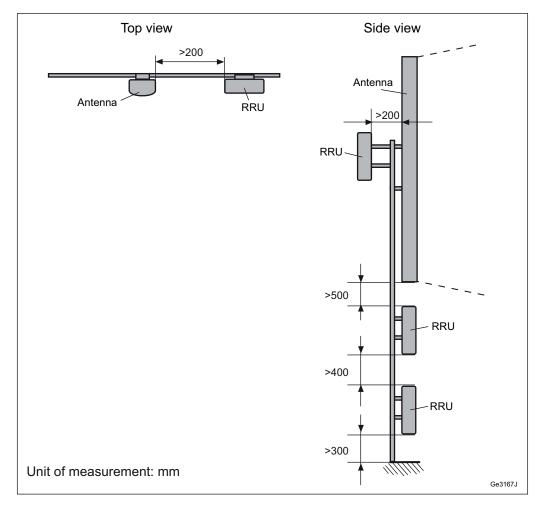


Figure 4 RRU Pole Installation Requirements

To ensure adequate airflow between the units, there must be a minimum of 400 mm free space between RRUs installed vertically on a pole.

There must be a minimum vertical distance of 500 mm between RRU and antenna, if installed above or below an antenna.

There must be a minimum of 200 mm free space between RRUs installed side by side.

The minimum distance from the bottom of the RRU to the floor is 300 mm.

Note: An RRU cannot be installed in the uppermost position of a pole or mast.

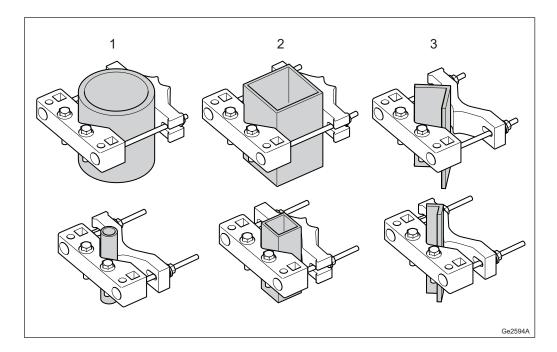


Figure 5 Alternative Pole or Mast Cross Sections

The required structural strength of the pole or mast to handle the load of the equipment has to be evaluated separately.

Cross Section	Minimum Dimension (mm)	Maximum Dimension (mm)
1. Circular	Ø25 ⁽¹⁾	Ø120
2. Square	40×40	80×80
3. 90°	20×20 ⁽²⁾	55×55

(1) For triple unit installation, the minimum pole dimension is Ø50 mm.

(2) For triple unit installation, the minimum pole dimension is 45×45 mm.



3.3.3 Wall Installation

This section describes the installation requirements when installing the RRU on a wall.

3.3.3.1 RRU Installation on Outdoor Wall

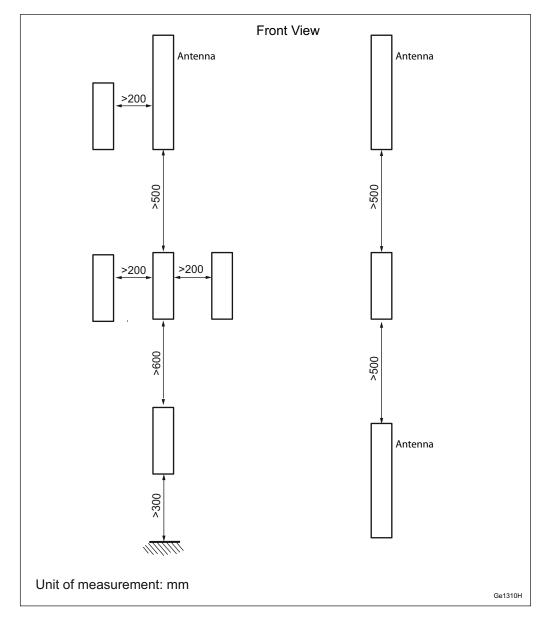


Figure 6 RRU Outdoor Wall Installation Requirements

To ensure adequate airflow between the units, there must be a minimum of 600 mm free space between RRUs installed vertically on a wall.

There must be a minimum vertical distance of 500 mm between RRU and antenna, if installed above or below an antenna.

There must be a minimum of 200 mm free space between RRUs installed side by side.

The minimum distance from the bottom of the RRU to the floor is 300 mm.

Note: An RRU cannot be installed in the uppermost position on a wall.

3.3.3.2 RRU Installation on Indoor Wall

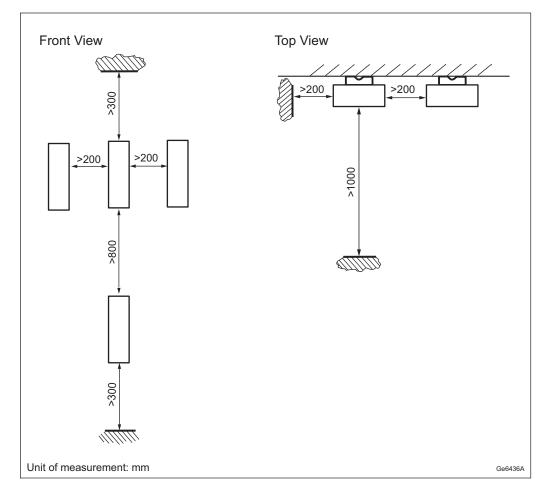


Figure 7 RRU Indoor Wall Installation Requirements

To ensure adequate airflow between the units, there must be a minimum of 800 mm free space between RRUs installed vertically on a wall.

There must be a minimum of 200 mm free space between RRUs installed side by side.

The minimum distance from the bottom of the RRU to the floor is 300 mm.

3.4 Acoustic Noise

The RRU does not generate acoustic noise.

3.5 Environmental Characteristics

This section contains RRU operating environment data.

3.5.1 Operating Environment

The following are the values for the RRU normal operating environment:

Temperature ⁽¹⁾	-40°C to +55°C
Solar radiation	≤ 1120 W/m²
Relative humidity	5–100%
Absolute humidity	0.26–40 g/m ³
Maximum temperature change	0.5°C/min
Maximum wind load at 50 m/s (pole installed single case)	350 N (front)

(1) Depending on product variant, installation scenario, traffic load, and configuration, the product might in the highest 10 °C temperature range, temporary reduce the output power. This depends on the durations of the high ambient temperature.

3.5.2 Heat Dissipation

The RRU is convection cooled and designed for outdoor installation. The values shown in Table 3 are meant to give an idea of heat dissipation when the unit is installed indoor, or around other RRUs.

Avoid indoor installation in a room without adequate ventilation and cooling.

Unit	Output Power (W)	Maximum Heat Dissipation (kW)
RRUS 32 B2	4×40	0.75
RRUS 32 B3	4×40	0.70
RRUS 32 B4	4×40	0.70
RRUS 32 B7	4×40	0.75
RRUS 32 B7A	4×40	0.75
RRUS 32 B30	4×25	0.70

Table 3 RRU Heat Dissipation

Unit	Output Power (W)	Maximum Heat Dissipation (kW)
RRUS 32 B66A	4×40	0.72

3.5.3 Vibration

The RRU operates reliably during seismic activity as specified by test method IEC 60 068-2-57 Ff.

Maximum level of Required Response Spectrum (RRS)	50 m/s ² within 2–5 Hz for DR=2%
Frequency range	1–35 Hz
Time history signal	Verteq II

The RRU operates reliably during random vibration as specified by test method IEC 60 068-2-64 Fh method 1

Random vibration, normal operation	0.5 m²/s³
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The RRU operates reliably during shock as specified by test method IEC 60 068-2-27 Ea

Peak acceleration	40 m/s ²
Duration	22 ms

3.5.4 Materials

All Ericsson products fulfill the legal and market requirements regarding the following:

- Material declaration
- Materials' fire resistance, components, wires, and cables
- Recycling
- Restricted and banned material use

3.6 Power Characteristics

This section describes the power requirements, power consumption, and fuse and circuit breaker recommendations for the RRU.

Different power systems can supply power for multiple RRUs if necessary.

3.6.1 DC Power Characteristics

The power supply voltage for the RRU is -48 V DC.

Table 4RRU DC Power Supply Requirements

Conditions	Values and Ranges
Nominal voltage	-48 V DC
Operating voltage range	-40 through -58.5 V DC
Non-destructive range	0 through -60 V DC
Extended operating voltage range ⁽¹⁾	–39 through –58.5 V DC

(1) Only continuous operation, no re-start, or carrier re-configuration.

The RRU is designed for 3-wire power connections. For 2-wire power solutions, a DC adapter must be used.

Fuse and Circuit Breaker Recommendations

The recommendations given in this section are based on peak power consumption and give no information on power consumption during normal operation.

The recommended melting fuse type is gG-gL-gD in accordance with IEC 60269-1. Circuit breakers must comply with at least Curve 3 tripping characteristics, in accordance with IEC 609 34.

The RRU has a built-in Class 1 (Type 1) Surge Protection Device (SPD) to protect the equipment in case of lightning and network transients. The recommended fuse or circuit breaker rating is therefore dimensioned to not trip the fuse or circuit breaker in case of most SPD operation. The minimum fuse rating can be taken into account only if it is accepted that fuses or circuit breakers trip in such situations.

Unit (DC Powered)	Output Power (W)	Minimum Fuse Rating ⁽¹⁾ (A)	Fuse Rating Recommended for Reliable Operation ⁽²⁾ (A)	Maximum Allowed Fuse Rating ⁽³⁾ (A)
RRUS 32 B2	4×40	26 A	26 A	32 A
RRUS 32 B3	4×40	26 A	26 A	32 A
RRUS 32 B4	4×40	26 A	26 A	32 A
RRUS 32 B7	4×40	26 A	26 A	32 A
RRUS 32 B7A	4×40	26 A	26 A	32 A
RRUS 32 B30	4×25	20 A	20 A	32 A
RRUS 32 B66A	4×40	26 A	26 A	32 A

 Table 5
 External RRU Fuse and Circuit Breaker Recommendations

- (1) These fuse ratings can only be used if it is acceptable that fuses trip because of lightning or network transients.
- (2) The recommended fuse ratings take into account that external fuses are not to trip because of lightning or network transients.
- (3) The absolute maximum fuse class in accordance with RRU design restrictions.
- **Note:** If a fuse or circuit breaker rating above minimum fuse rating is selected, cable dimensioning rules in $-48 \vee DC$ Power Interface on page 24 are to be reconsidered to make sure that the fuse or circuit breaker tripping criteria are met.

3.6.2 Power Consumption

For information on power consumption, refer to *Power Consumption Calculations*.

3.7 System Characteristics

This section describes the system characteristics of the RBS.

3.7.1 RF Electromagnetic Exposure for RBS 6000

For general information on RF Electromagnetic Fields (EMF) for RRUs connected to an RBS from the 6000 family, refer to *Radio Frequency Electromagnetic Fields*.

For information about radio access-specific compliance boundaries for electromagnetic exposure, refer to *Radio Frequency Electromagnetic Exposure*.

3.7.2 Radio Configurations

For information about available radio configurations, refer to *RBS Configurations*.



4 Hardware Architecture

For a description of the supported configurations, refer to RBS Configurations.

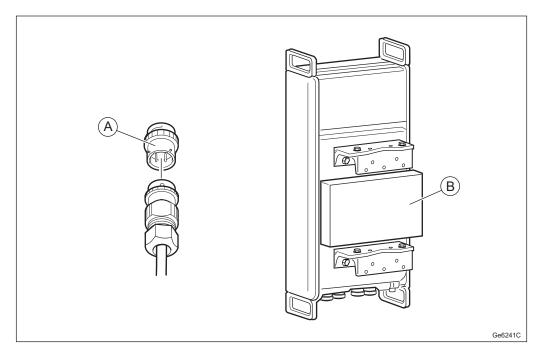


Figure 8 DC Adapter and RRU Components

Table 6	DC Adapter and RRU Components
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A	DC adapter for 2-wire connector	
В	PSU (optional)	
	For more information about the PSU, see <i>PSU AC (Optional)</i> on page 22.	

4.1 RRU Overview

The RRU contains most of the radio processing hardware. The following sections describe the components inside the RRU.

4.1.1 TRX

The Transmitter and Receiver (TRX) provides the following:

• Analog/Digital (A/D), Digital/Analog (D/A) conversion

- Channel filtering
- Delay and gain adjustment
- Digital predistortion
- RF modulation and demodulation
- Optical cable interface termination
- Control and surveillance
- ALD receiver (the antenna system communication link)

4.1.2 PA

The Power Amplifier (PA) is the linear power amplifier for the RF carrier.

4.1.3 FU

The Filter Unit (FU) consists of band-pass filters and low-noise amplifiers.

In the RRU, the FU also provides the following:

- Power for the ASC, the TMA, or the RIU
- Voltage Standing Wave Ratio (VSWR) supervision

4.1.4 DC SPD

The DC SPD board protects the DC power input from lightning currents.

4.1.5 ALD (RET) SPD

An SPD provides overvoltage or overcurrent protection for the ALD (RET) port.

4.1.6 External Alarm SPD

An SPD provides overvoltage or overcurrent protection for the external alarm ports.

4.2 Optical Indicators and Buttons

The RRU is equipped with optical indicators that show system status. The optical indicators are located under the maintenance cover.

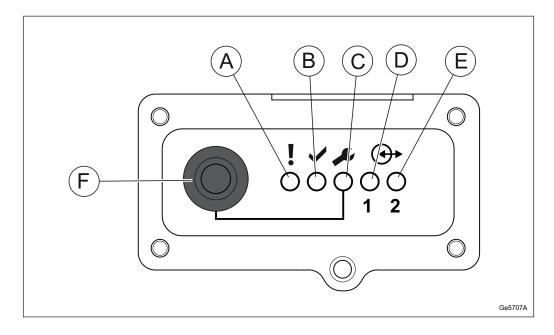


Figure 9 RRU Optical Indicators and Buttons

Table 7	Description of Optical Indicators and Buttons
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Position	Name	Marking	Color	Mode	Description
А	Fault	l	Red	Off	No fault
		·		On	Some faults
В	Operational		Green	Off	The RRU has no DC power at all.
			Flashing slowly (0.5Hz)	Booting and the BCI connection between RBS and RRU are being established.	
				Flickering (16 Hz)	Busy
				On	Normal operation
				Double-flashing	When SW is being downloaded, the optical indicator is periodically double flashed on top of the base optical indicator status (Off/ Slow/Fast/On).
С	Maintenance	عر	Blue		
D, E Interface 1 Interface 2		Green	Off	Not connected with RBS. No available CPRI ⁽¹⁾ communication between RBS and RRU.	
				On	CPRI link is established on Layer 2 level.
F	Maintenance button ⁽²⁾	-	-	-	_

(1) Common Public Radio Interface (CPRI)

(2) For more information about the maintenance button, refer to Indicators, Buttons, and Switches.

For more information about the behavior of the optical indicators and the maintenance button, refer to *Indicators, Buttons, and Switches*.

4.3 PSU AC (Optional)

The PSU is required for the AC power input option. The PSU converts RRU input main power 100–250 V AC to -48 V DC and is installed on the back of the RRU.

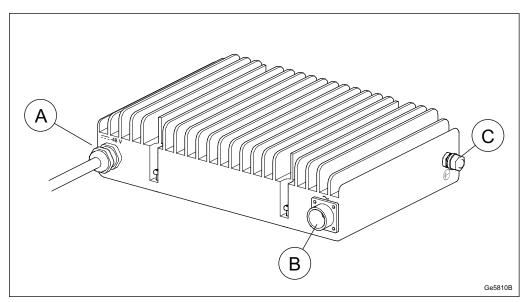


Figure 10 PSU AC 08

Table 8Connection Interfaces for PSU AC 08

Position	Interface	
А	Output power interface	
В	Input power interface	
С	Grounding interface	

To install the PSU AC 08 on the back of the RRU a special bracket that frees up space for the PSU AC 08 is required, for more information refer to *Install Remote Radio Units*.

For more information about PSU AC 08, refer to PSU Description.



5 Connection Interfaces

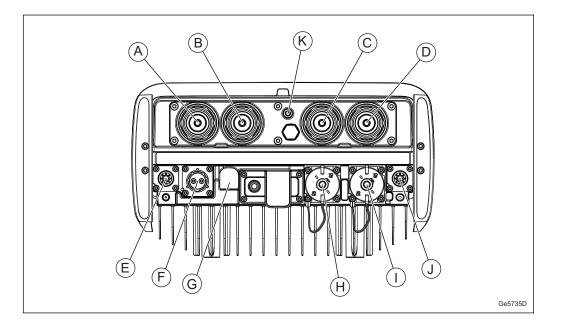


Figure 11 RRU Connection Interfaces

Table 9 RRU Connection Interfaces

Position	Description	Marking	Connector Types	Cable Types
А	Antenna A	A¤₹	7/16	
В	Antenna B	В₫₽	connector	
С	Antenna C	C¤₹		
D	Antenna D	DÄ₹		
E	Antenna Line Device (ALD) ⁽¹⁾ .	ALD	Mini-DIN connector, 8 pin	

Position	Description	Marking	Connector Types	Cable Types
F	-48 V DC power supply	POWER	Screw terminal connector	
G	Grounding	Ť	M8 bolt	
Н	Optical cable 1	⊕ 1	LC (On SFP)	
I	Optical cable 2	⊕+ 2		
J	External alarm	Ģ	Alarm connector	
К	For future use	_	_	-

(1) Used for a Remote Electrical Tilt (RET) unit, for example.

5.1 -48 V DC Power Interface

The -48 V DC power connector for incoming power accepts cables with various cross-sectional areas, depending on the cable length and the RRU maximum power consumption. For more information on -48 V DC power cable dimensions, see *Main-Remote Installation Products Overview*.

The power cable conductor has a wire for the 0 V DC conductor, and a wire for the -48 V DC conductor. The color codes are market dependent for both wires.



All cables must be shielded. The shielding must be properly connected both to the power connector and to the grounding interface in the power supply equipment, otherwise the RRU overvoltage and lightning protection does not function properly.

5.2 Grounding Interface

The RRU must be grounded to protect it from overvoltage and lightning strikes. The grounding interface on the RRU accepts single cable lug on a coated cable. The cable lug is connected to the RRU using one M8 bolt.

For more information about grounding principles, refer to *Grounding Guidelines for RBS Sites*.

5.3 ALD Ctrl Interface

The ALD control (ALD Ctrl) connects an ALD (RET) cable to the RRU for antenna system communication.

5.4 External Alarm Interface

Six external alarms can be connected to the RRU external alarm port.

5.5 Antenna Interface

The antenna interfaces provide RRU connections to antennas. RF cables connect the RRU to the antenna.

Table 10	RRU Antenna Connection	Interface Characteristics
Table 10	RRU Antenna Connection	Interface Characteristics

Connector Type	RF Cable Type	Cable Connector Type
7/16 IEC-169-4 insert-receiver type	50 Ω coaxial	7/16 insert-type on both ends

	Table 11	RRU Antenna Cable Connectors
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RRU Connectors	Antenna Connectors
Aă ⊄ (Antenna A)	TX/RX
Bă i (Antenna B)	TX/RX
Că ≹ (Antenna C)	TX/RX

RRU Connectors	Antenna Connectors
D Äᠯ (Antenna D)	TX/RX

5.6 Interface for Optical Cable to Main Unit

The \oplus 1 and \oplus 2 interfaces provide connections to optical cables for traffic and timing signals between the RRU and the main unit. A Small Form-Factor Pluggable (SFP) is used to connect the optical cable to the RRU.

Note: The RRU uses SFP modules for optical transmission and optical radio interfaces on Data 1 and Data 2.

Only SFP modules approved and supplied by Ericsson are to be used. These modules fulfill the following:

- Compliance with Class 1 laser product safety requirements defined in standard IEC 60825-1
- Certification according to general safety requirements defined in standard IEC 60950-1
- Functional and performance verified to comply with RBS specifications

Recommended SFP modules are obtained from the product packages for the RBS and the Main Remote Installation products. For more information about SFP modules, refer to *Spare Parts Catalog* and *Main-Remote Installation Products Overview*.



6 Standards and Regulations

This section presents a brief overview of standards, regulatory product approval, and declaration of conformity.

Declaration of Conformity

"Hereby, Ericsson AB, declares that this Product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and 2011/65/EU."

6.1 Regulatory Approval

The product complies with the following market requirements:

- EC (European Community) market requirements, Radio Equipment Directive 2014/53/EU and Directive 2011/65/EU.
- The apparatus may include Radio Transceivers with support for frequency bands not allowed or not harmonized within the EC.
- Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive (2011/65/EU).
- North American market requirements.
- Products containing Radio Equipment outside North America and in countries not recognizing the CE-mark may be labeled according to national requirements or standards.

6.1.1 Environmental Standards Compliance

The product complies with the following environmental standard:

Europe

• EN 50581 (RoHS)

6.1.2 Safety Standards Compliance

In accordance with market requirements, the product complies with the following product safety standards and directives:

International

• IEC 60 950-1 Ed2 with amendment A1

Europe

- EN 50 385
- EN 60 950-1 Ed2 with amendment A1

North America

- CSA-C22.2 No.60950-1-07 with amendment A1
- FCC CFR 47 Part 1.1310
- Health Canada Safety Code 6
- UL 60950-1

6.1.2.1 Outdoor Specific Requirements

The product complies with the following outdoor specific requirements:

International

- IEC 60 529 (IP55)
- IEC 60 950-22

Europe

- EN 60 529 (IP55)
- EN 60 950-22

North America

- CSA-C22.2 No. 60950-22-07
- UL 50E
- UL 60950-22



6.1.3 EMC Standards Compliance

The product complies with the following Electromagnetic Compatibility (EMC) standards:

International

• 3GPP TS37.113

Europe

- ETSI EN 301 489-1
- ETSI EN 301 489-50

North America

- FCC CFR 47 Part 15 B
- IC ICES-003 B

6.1.4 Radio Standards Compliance

The product complies with the following radio standards:

International

• 3GPP TS37.141

Europe

- ETSI EN 301 908-1
- ETSI EN 301 908-18

North America

- FCC CFR 47 Part 2 (USA)
- FCC CFR 47 Part 22, 24, 27, and 90 (USA frequency dependent)
- IC RSS-132, 133, 139, 195, and 199 (Canada frequency dependent)
- IC RSS-Gen (Canada)

6.1.5 Marking

To show compliance with legal requirements, the product is marked with the following labels:

Europe

CE mark

North America

- usETL/cETL
- FCC CFR 47 Part 15 Statement
- IC ICES-003 Statement
- FCC ID (located on RRU)
- IC ID (located on RRU)

6.2 Other Standards and Regulations

The standards and regulations in this section are not regulatory approved.

6.2.1 Spare Parts

The product adheres to the Ericsson Serviceability and Spare Part Strategy.

6.2.2 Surface Quality

The surface quality of the product is in accordance with Ericsson standard class A3.

6.2.3 Vandal Resistance

Unauthorized access is not possible without damaging the unit.