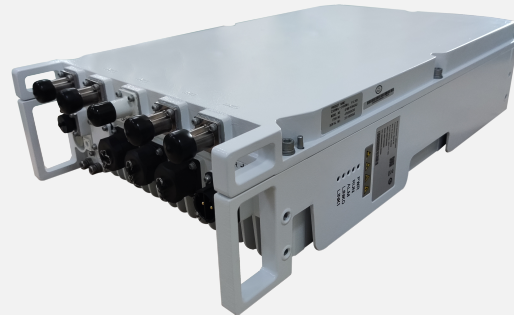




INTRODUCTION

The product is an advanced single-band outdoor 4 x 40 watt Remote Radio Unit (RRU) that supports operation in GSM and Long-Term Evolution (LTE) modes and is hardware-ready for NR 5G technology. The device operates in a single band and supports up to 4T4R. It also supports both multi-carrier and single-carrier operation modes.

Cooperating with a Base-Band Unit (BBU), the RRU provides customers with advanced, high-performance distributed wireless solutions suitable for a variety of scenarios. It combines multiple technologies to provide wireless outdoor coverage solutions, improving outdoor coverage and capacity while eliminating blind spots at low cost.

The distributed solution (BBU+RRU) is easy to deploy and flexible to configure, effectively meeting outdoor wireless network capacity and coverage requirements.

This product comes with a standard one-year warranty; an extended warranty is available.

HIGHLIGHTS

NOTE: Features can vary based on model or region.

- Standard LTE FDD Band 1/3/7/8/20/28
- Standard LTE TDD Band 38/40/41/42
- Standard GSM900 and GSM1800
- Supports software upgrade to 2G or 5G RRU*
- Supports RET functionality with AISG 2.0
- Excellent Non-Line-of-Sight (NLOS) coverage

- Lower power consumption reduces OPEX and allows easy powering by the compact outdoor smart UPS.
- * Will be released later.

TECHNOLOGY

Standard	LTE/GSM/NR*
Frequency Band - FDD	Band1 (UL 1920MHz– 1980 MHz, DL 2110 MHz– 2170 MHz) Band3 (UL 1710 MHz– 1785 MHz, DL 1805 MHz– 1880 MHz) Band7 (UL 2500MHz– 2570 MHz, DL 2620 MHz– 2690 MHz) Band8 (UL 880MHz– 915 MHz, DL 925 MHz– 960 MHz) Band20 (UL 832MHz– 862 MHz, DL 791 MHz– 821 MHz) Band28 (UL 703MHz– 748 MHz, DL 758 MHz– 803 MHz)
Frequency Band - TDD	Band38 (2575 MHz – 2615 MHz) Band40 (2300 MHz – 2400 MHz) Band41(2496 MHz – 2690 MHz) Band42(3400 MHz – 3600MHz)
TDD UL/DL Configuration	1, 2, 6 (with Special Subframe Configuration 7)
Frequency Band - GSM	GSM900, GSM1800
Channel Bandwidth	LTE SC: 5/10/15/20 MHz; DC/CA: maximum 40 MHz bandwidth GSM: 200KHz
VSWR	Supported
Receive Sensitivity	Band1/3/7: -105.0dBm (per channel) Band8/20/28: -105.5dBm (per channel) Band38/40/41/42: -104.5dBm (per channel) GSM: -110dBm (per channel)
Modulation	DL: QPSK, 16QAM, 64QAM, 256QAM UL: QPSK, 16QAM, 64QAM

	GMSK
Transmit Power Range	37dBm to 46dBm per channel (combined +52dBm, configurable with 1 dB interval)

* Will be released later.

INTERFACE

Ethernet Interface	2 x optical interface (SFP+)
Power Supply	-38VDC ~ -57VDC, nominal -48VDC AC adaptor (multi-national standards)
LED Indicators	5 x status LED PWR/RUN/ALM/LINK0/LINK1
Antenna Connection	4T4R external high gain antenna with mini-DIN connectors
RET support	AISG 2.0, 20 VDC ~ 30 VDC, RS-485, 3GPP TS 25.461

PHYSICAL

Surge Suppression	Yes
Power Interface Lightning Protection	Differential mode: ± 10 KA Common mode: ± 20 KA
MTBF	≥ 150000 hours
MTTR	≤ 4 hours
Ingress Protection Rating	IP66
Operating Temperature	-40°F to 131°F / -40°C to 55°C
Storage Temperature	-49°F to 158°F / -45°C to 70°C
Humidity	5% to 95% RH
Atmospheric Pressure	70 kPa to 106 kPa
Power Consumption	Typical 330W, maximum 530W
Weight	Without bracket: 40.6lbs/18.4kg@Band1/3/7/GSM1800 47.2lbs/21.4kg@Band8/20/28/GSM900 38.4lbs / 17.4kg@Band38/40/41/42 41.9lbs/19.0kg@Band1/3/7/GSM1800

	With pre-installed bracket: 48.5lbs /22.0kg@Band8/20/28/GSM900 39.7lbs / 18.0kg@Band38/40/41/42
Dimensions (HxWxD)	GSM1800/Band1/3/7: 20.7 x 12.1 x 4.7 inches/527 X 308 X 120 millimeters GSM900/Band8/20/28: 20.7 x 12.1 x 5.3 inches/527 X 308 X 135 millimeters Band38/40/41/42: 20.7 x 12.1 x 4.7 inches/527 X 308 X 120 millimeters
Installation	Pole or wall mount

MODEL NUMBER

sRU72010	Gamma452 – Band1(UL1920MHz-1980MHz/DL2110MHz-2170MHz), 4T4R, 4*40W, -48VDC, external antenna, 2*OPT)
sRU72030	Gamma452 – Band3(UL1710MHz-1785MHz/DL1805MHz-1880MHz), 4T4R, 4*40W, 48VDC, external antenna, 2*OPT)
sRU72070	Gamma452 – Band7(UL2500MHz-2570MHz/DL2620MHz-2690MHz), 4T4R, 4*40W, -48VDC, external antenna, 2*OPT)
sRU72080	Gamma452 – Band8(UL880MHz-915MHz/DL925MHz-960MHz), 4T4R, 4*40W, -48VDC, external antenna, 2*OPT)
sRU72200	Gamma452 – Band20(UL832MHz-862MHz/DL791MHz-821MHz), 4T4R, 4*40W, -48VDC, external antenna, 2*OPT)
sRU72280	Gamma452 – Band28(UL703MHz-748MHz/DL758MHz-803MHz), 4T4R, 4*40W, -48VDC, external antenna, 2*OPT)
sRU71380	Gamma452 – B38(2575MHz-2615MHz),4T4R,4*40W,48VDC, external antenna, 2*OPT)
sRU71400	Gamma452 - B40(2300MHz-2400MHz),4T4R,4*40W,48VDC, external antenna, 2*OPT) CE compliance
sRU71410	Gamma452 - B41(2496MHz-2690MHz),4T4R,4*40W,48VDC, external antenna, 2*OPT)
sRU71420	Gamma452 - B42(3400MHz-3600MHz),4T4R,4*40W,48VDC, external antenna, 2*OPT)

NOTE: Customized versions can be requested.