

NEO 5G-RU



NEO is the latest 5G Radio Unit (RU) dedicated to vertical markets and beyond. NEO is an advanced integrated system based on RFSoC supporting Multi-standard 5G-NR, NB-IoT and LTE, lightweight and compact solution designed for outdoor applications.

KEY BENEFITS

- ▶ Multi-standard (4G, NB-IoT, 5G-NR)
- ▶ O-RAN split 7.2 architecture compliancy
- ▶ IBW up to 100MHz
- ▶ OBW up to 100MHz
- ▶ MIMO 4x4 up to 5W
- ▶ Frequency flexibility (n38, n78, n77, n48 TDD bands)
- ▶ Ease deployment
- ▶ IP65



This new in-house design system is based on state-of-the-art components and AW2S technology and signal processing associated to advanced PA architecture answering to 5G requirements and beyond.

Thanks to its small form factor and its trap access, this medium power version can be easily deployed for outdoor 5G vertical applications, such as Campus networks, Industry, airports, white spaces, ...
The best way for a smooth transition from split 8 to split 7.2 architecture.

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GENERAL SPECIFICATIONS

Nb of TX/RX ports	4
NR/LTE bands	n/B38, n/B48, n77, n78
Output Power@Ant. ports	Up to 5W ⁽¹⁾
Nb Carrier per ports	1 ⁽²⁾
Duplex Mode	TDD or FDD
IBW	100 MHz ⁽²⁾
OBW	100MHz ⁽²⁾
RX Sensitivity	Based on Wideband Area RU
TX SEM	Med. Range RU
5G NR Compliancy	ETSI TS138.104 Rel.15
4G Compliancy	ETSI TS136.104 Rel.15

⁽¹⁾ Depends on Bands ⁽²⁾ Ask for more capability

FIRMWARE SPECIFICATIONS

O-RAN Standard	O-RAN v4.0	U-plane IQ Compression	BFP/BSC/mu-Law
O-RAN Split 7.2x	Cat. A	S-Plane	PTP, Synch-E, GPS
NR/LTE BW	All	M-Plane	NETCONF
NR Numerology	15/30/60 kHz	CPRI Standard	V7.0
PRACH	Format 0, 1, 2, 3 and short format	CPRI rate	Up to 9
DL Mod. Compression	Yes	C&M	ORI

MECHANICAL SPECIFICATIONS

Weight	≤8 Kg typ.
Dimensions	405 x 283 x 71 mm
Power Consumption	≤100 W typ.
Power Supply	-48 VDC
Antenna Connectors	4.3/10 type
HS Connectivity	2x SFP+
GPS Connector	1x SMA
Debug Connector	1x RJ45

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	-40°C to +55°C
Storage Temp.	-40°C to +65°C
IP Class	IP65

Visit our Web site or contact us for more information. Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

