



WAVE gNB



Product Overview

The Pacewave Wave is a compact, high-performance outdoor 5G mmWave gNB for the FR2 n257, n258 and n261 bands. An integrated 128T/128R antenna array, built as an 8×8 matrix of dual-polarised elements, beamforms in azimuth and elevation to deliver 51 dBm EIRP. The all-in-one unit carries up to four 100 MHz channels, with 10GbE fibre backhaul and GPS synchronisation.

Key Features



IP Grade
IP66



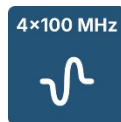
EIRP
51 dBm



Backhaul
10GbE fibre



Antenna
128T128R



Channel BW
4 × 100 MHz

Specifications

Technical Standard	5G NR FR2 (mmWave) gNB All-in-one (AIO) split
Operating Frequency*	26.5–29.5 GHz n257 / n258
Tx / Rx Paths	128T / 128R
Antenna	Integrated 8×8 dual-polarised panel (±45°), 23 dBi gain, beamforming in AZ and EL
Beam Steering	90° (1 dB) / 120° (4 dB) Beamwidth 13.5°
Total Tx Power	640 mW (28 dBm) 128 × 5 mW (7 dBm)
EIRP	51 dBm
Channel Bandwidth	Up to 4 × 100 MHz (800 MHz IBW)
MIMO Layers	DL: 2, UL: 1
Modulation	DL / UL: up to 64QAM
Backhaul	1 × 10GbE SFP+ (fibre)
Synchronisation	GPS (antenna included) IEEE 1588v2 PTP (HW ready) 8-hour holdover
Power	–48 V DC (40.5–57 V) 85 W nominal, 130 W max
Dimensions	400 × 220 × 120 mm
Weight	6.7 kg
Install	Pole or wall mount (optional bracket, 20° tilt)
Operating Environment	Temperature: –40°C to 55°C Humidity: 8% to 100% (condensing)
IP Grade	IP66

About Pacewave

We help our customers design and build innovative, end to end, cost effective 4G and 5G wireless solutions and associated products