

NW Lomond

5G Network in a Box (NIB)

OVERVIEW

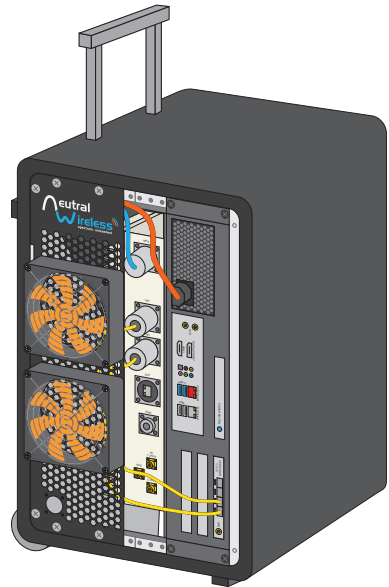
The Neutral Wireless Lomond 5G Network in a Box (NIB) delivers a fully portable 5G basestation, with Release 16 aligned vBBU software stack and integrated mini-5GC for subscriber management and local data breakout. The NIB is the perfect solution for lab work and field trials, and also for deploying a pop-up 5G network at events for sports broadcasting, music festivals, and public conferences.

The NW Lomond NIB is a truly mobile private 5G StandAlone solution, with the Radio Head and Compute platforms packaged in a 5U wheeled case, and optional companion Antenna and Tripod in another. The 5G network can be unpacked and operational in as little as 5 minutes.

POWERED BY AMD-XILINX

The Neutral Wireless Radio Head and vBBU are powered by AMD-Xilinx technology, ensuring high performance computing and dedicated hardware acceleration.

Our 4TRx Software Defined Radio Head can be operated as a single 4x4 MIMO cell or as dual 2x2 MIMO cells, with bandwidths of up to 100MHz. These radios feature a typical 'split 8' CPRI interface, and are connected to the vBBU via fibre. These are high performance Radio Heads with excellent RF sensitivity and a history of successful field deployments, that meet the spectral emissions criteria specified in TS 38.104.



KEY FEATURES

- ▶ Full 5G basestation in a box with a Rel 16 aligned vRAN software stack
- ▶ Contains a mini-5GC for subscriber management and data breakout
- ▶ 4TRx radio operates as single 4x4 MIMO cell or dual 2x2 MIMO cells, with bandwidths up to 100MHz
- ▶ AMD-Xilinx powered radio head, meets TS 38.104 emissions criteria

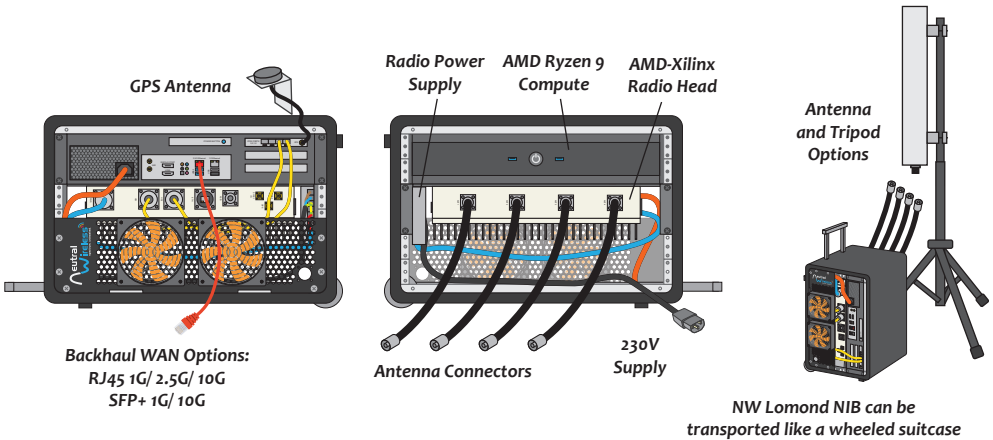
PEAK PORTABILITY

- ▶ Complete 5G StandAlone radio network in portable wheeled case
- ▶ Perfect for lab work, field trials, and popup 5G networks at events

CUSTOMISED FOR YOUR USE CASE

Neutral Wireless is able to offer a range of NIB hardware customisation, depending on your specific use case(s). While we primarily focus on midband Upper n77 (3800-4100MHz) and Upper n78 (3600-3800MHz) radio equipment, other bands are available. We can also supply Sector and Omni directional Antennae (in both single and multi-band configurations), tripods and transport cases. For backhaul interfaces, there are options of 1G/2.5G/10G RJ45 copper ports, and 1G/10G SFP+ ports. With the latter, we can also supply compatible singlemode LR transceivers.

Alongside the NIB, Neutral Wireless can supply a range of 5G UEs (5G USB modems, small 5G compute platforms, indoor/ outdoor 5G CPEs) and USIM cards for a complete solution. Please get in touch at info@neutralwireless.com to discuss your 5G needs.



NW Lomond NIB Specifications

Compute platform: AMD Ryzen 9, 16GB RAM, 120GB SSD, CPRI PCIe card, optional 10G Network cards, Linux OS preconfigured with 5G vRAN and 5GC software

Radio platform: 2W 4TRx AMD-Xilinx MPSoC with 'split 8' CPRI interface

Antenna (sector example): 4-port 17.5 dBi, 65°H / 7°V beamwidth

Wheeled case dimensions (WxHxD): 550x350x570mm

Wheeled case total weight: 32kg

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