Mobile radio

4G/LTE mobile broadband radio

Tactical radio ecosystem connects soldiers, drones, robots and other sensor end points to enable at the edge data intelligence and communications. It provides battlefield commanders never before seen accessibility and situational awareness.

Supports up to 400 users

Supports 400 concurrent users sharing up to 300Mbps DL / 100Mbps UL in simultaneous band / max configuration

Integrated mesh radio

Fully integrated MANet radio for backhaul connectivity and communication redundancy

No annual license

No need to pay for an annual license when you own your own infrastructure

Dual 2 x 5W LTE bands

1W – 20W options and configurations available to fit your case

CSFC compatible

Over-the-air 128-bit AES, optional double wrapped 256-bit AES (CSFC compatible) ensuring end-to-end security

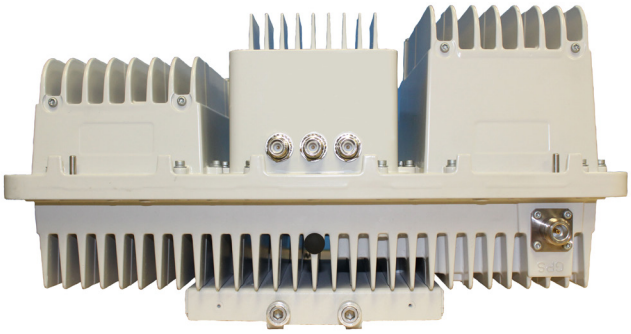
a. Front view

Onboard computer

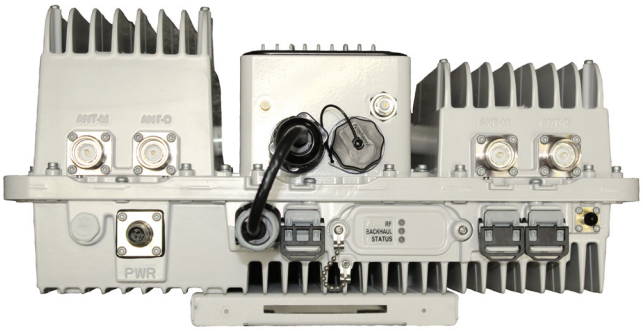
Embedded computer for onboard EPC and edge data services. TAK ready!

Technical specifications

General	
Frequency range	Multiple band configurations available in commercial LTE bands (700MHz - 6GHz) Standard option is band 2 + 66
System capability	Multiple RF front end 4G/LTE, MANet
Operating modes	Stand-alone, or agile mesh network
Software architecture	IP “Flat” - system of systems ready
Power	
Power consumption	Max: 360W Typical use: 280W 50% Capacity: 255W
Power requirements	90-264 VAC, DC compatible option
Power sources	External battery or on-board platform power
Security	
Encryption	Over the air- 128 bit AES, optional double wrapped 256-bit AES
Physical	
Dimensions	15.16W x 8.86H x 7.28D in (385W x 225H x 185D mm)
Weight	Approx. 24.25 lbs (11 kg) - pending option selection
Environmental	
Temperature	Operational: -40° F to +131° F (-40° C to +55° C) Storage: -40° F to +158° F (-40° C to +70° C)
Environment	IP65 performance quality
Wireless	
Wireless transmission	OFDM, Frequency Division Duplex (FDD) and Time Division Multiple Access (TDMA), Multiple Input Multiple Output (MIMO)
Channel size	Up to 20MHz (configurable per 3GPP specifications)
Channel spacing	1 MHz
Max TX power	2 RF modules of 2 x 5 Watt MIMO. 14 power level settings
Modulation	OFDMA downlink, SCFDMA uplink
Standard kit includes	
AC power cables	U.S. style AC power cable
Antenna kit	2 x Omni eMIMO Peak gain 5.0 dBi Typical gain 3.5 dBi, GPS
Hard case	Hard case for shipment and storage
Accessories and features	
MANet module	MPU5 w/ Hi-Power RF Card (L or S band)
Companion computer	Customized embedded computer
LTE network core	Hosted on each node’s companion computer
TAK server (available in US only)	Hosted on each node’s companion computer



b. Top view



c. Bottom view

About Nokia

We create the technology to connect the world. Only Nokia offers a comprehensive portfolio of network equipment, software, services and licensing opportunities across the globe. With our commitment to innovation, driven by the award-winning Nokia Bell Labs, we are a leader in the development and deployment of 5G networks.

Our communications service provider customers support more than 6.4 billion subscriptions with our radio networks, and our enterprise customers have deployed over 1,300 industrial networks worldwide. Adhering to the highest ethical standards, we transform how people live, work and communicate. For our latest updates, please visit us online www.nokia.com and follow us on Twitter @nokia.

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