

Tactical radio

4G/LTE mobile broadband radio

Tactical radio ecosystem connects soldiers, drones, robots, loitering munitions 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 128 users

Supports up to 128 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



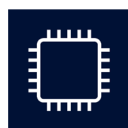
Dual 2 x 250mw LTE bands

Numerous 2x2x250mW MIMO LTE band options and configurations available to fit your use case



CSFC compatible

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



Onboard computer

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



a. Front view

Technical specifications

General	
Frequency range	Multiple band configurations available in commercial LTE bands (700MHz - 6GHz) standard option is band 66 + 46
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: 75W Typical use: 50W
Power requirements	20-40 VDC with AC power options available
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	11.50W x 17.20H x 4.45D in (29.21W x 43.68H x 11.30D mm)
Weight	Approx. 17 lbs (7.71 kg) w/ 2 x BA-2590 batteries (user density and configuration dependent)
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 250 mW 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. Left side view



c. Rear 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.

Nokia is a registered trademark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

© 2020 Nokia

Nokia OYJ
Karakaari 7
02610 Espoo
Finland
Tel. +358 (0) 10 44 88 000

Find about Nokia Digital Automation (www.dac.nokia.com)