

# VIASAT NETAGILITY™ MOBILE ROUTER 50 (NMR-50)

Compact NetAgility Edge Router for Mobile Autonomy

## Robust Multi-Path Communications Platform

The NetAgility Mobile Router (NMR) 50 is a compact, rugged edge router built for next-generation networking challenges. Delivering multiple integrated diverse transports, AI-enabled processing power, and NetAgility software-defined routing within a SOCOM 1U Modular Payload compliant form factor.

## Mission-Ready Connectivity

NetAgility's software-defined routing and intelligent transport selection automatically manages internal M.2 software-defined radio modems, preconfigured for 5G/4G/LTE, Long Range Wi-Fi, and Iridium Short Burst Data – plus dual USB-C ports for external connections – helping to ensure your operations maintain communications even in the most challenging environments.

## Embedded AI Capability

The integrated ARM-based SoC delivers 15 Trillion Operations Per Second (TOPS) of on-device intelligence capability, while the Smart Mobility ARChitecture (SMARC) slot ensures seamless future upgradability when mission requirements evolve.



## NMR-50 Performance Summary

### Features

- › Small form factor, multi-SDR networking appliance
- › Three (3) upgradable Embedded transports with two (2) USB-C expansion ports
- › Distributed containerized AI/ML applications for endpoint processing

### PROCESSING

<b>Processor</b>	8-Core ARM-based CPU (Cortex-A77) up to 2.84GHz, with 15 TOPS NPU
<b>Memory</b>	8 GB LPDDR5
<b>Storage</b>	128 GB
<b>Applications</b>	Support for containerized AI/ML applications, hosted by NetAgility

### EMBEDDED TRANSPORTS (BASELINE)

<b>LR Wi-Fi</b>	5 GHz Wi-Fi 6E (802.11a/g/n/ac/ax)
<b>M.2 SDR-1</b>	Multi-Cellular: 5G (sub 6 GHz), 4G LTE Multi-GNSS: GPS (Dual-band L1/L5), GLONASS, Galileo, BeiDou, QZSS
<b>M.2 SDR-2</b>	Iridium Short Burst Data (SBD)

### MECHANICAL AND ELECTRICAL

<b>Dimensions (L x W x H)</b>	SOCOM 1U Modular Payload Compliant 6.20 x 4.29 x 1.5 in (15.75 x 10.9 x 3.81 cm)
<b>Weight</b>	1.7 lbs. (771 g)
<b>Power</b>	+28 VDC, 20 W Typical, 40 W Peak

### PHYSICAL INTERFACES

<b>Modular Aircraft Interface Module (MAIM)</b>	SOCOM Modular Payload Compliant: › +28VDC Source Power › Ethernet 100-BASE-T (LAN) › Serial Console
<b>LR Wi-Fi</b>	4 x SSMB (M) Antenna Plugs
<b>M.2 SDR-1</b>	4 x SSMB (M) Antenna Plugs
<b>M.2 SDR-2</b>	4 x SSMB (M) Antenna Plugs
<b>GPS</b>	1 x SSMB (M) – GPS ANT IN 1 x SSMB (M) – PPS OUT
<b>Expansion</b>	2 x USB-C (USB 3.0) with optional-use single locking screw
<b>Cellular</b>	2 x Micro-SIM Card Slot
<b>Indicators</b>	Front-panel LEDs for Power, Status and WAN

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