VIASAT NETAGILITY™ MOBILE ROUTER (NMR) 4650

Mobile SD-WAN networking platform

Low-SWAP platform that enables multiple, simultaneous network connections

The Viasat NetAgility™ Mobile Router (NMR) 4650 is a low-SWAP computing platform that enables the utilization of multiple, simultaneous network connections while providing robust and resilient connectivity. This device contains six 2.5G Ethernet interfaces and 1 Wi-Fi card, making it a great choice for a wide range of applications.

The NMR-4650 can be set in Primary, Alternate, Contingency, Emergency (PACE) configuration for high-speed transport bonding or autonomous resiliency. With the power of SD-WAN, this router can deliver high-speed data throughput and maintain the user's experience, even where certain networks are congested and contested. Management of the device can be done locally or through Viasat's NetAgility Orchestration Portal (NVO-1000).

The NMR-4650 is designed for a variety of use cases, such as transport bonding routers in Hub-Spoke SD-WAN networks, or Mesh routers to allow different Layer-2 and Layer-3 transports to connect over Line of Sight (LOS) and Beyond Line of Sight (BLOS) communications. This router has cloud and local management for ease of deployment and remote management, and Layer 2 Synthetic Mesh and Layer 3 bonding technology.

Viasat's NMR-4650 keeps you connected across distributed locations using mixed commercial and tactical transports to maintain tactical edge connectivity when and where you need it.
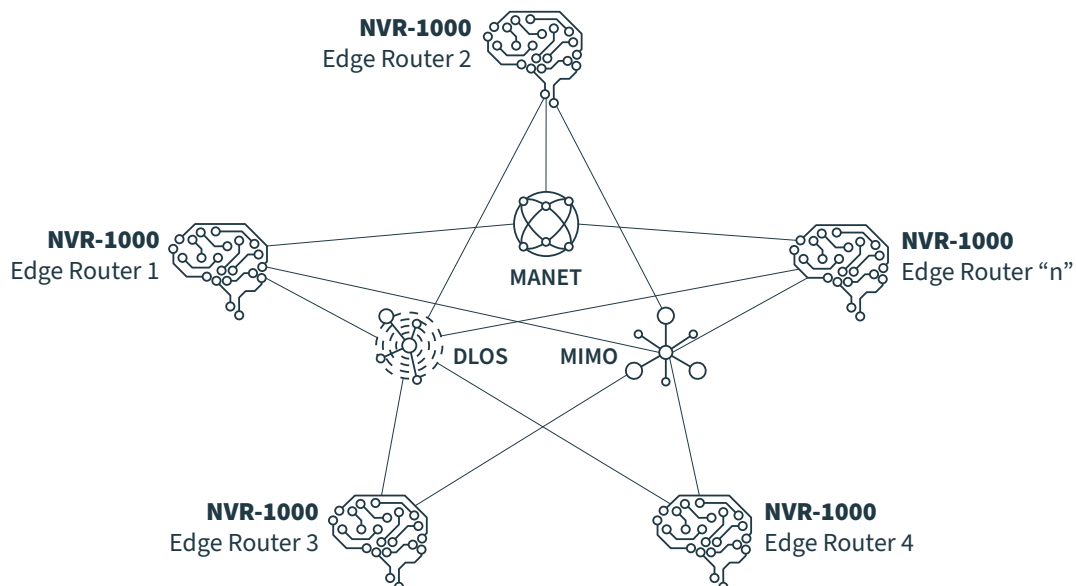

Figure 1: NetAgility automated failover intelligent Mesh for situational awareness and comms in distributed environments of mix LOS networks.

Viasat NetAgility™ Mobile Router (NMR) 4650
Specifications

PROCESSING

Processor	Intel i5-10210U (64 bit, 1.6 GHz Base, 4.2 GHz Turbo, 6 MB Smart Cache)
Processor Cores	Four (4)
Processor Threads	Eight (8)
Video/Graphics	Intel UHD Graphics for 10th Gen, one (1) HDMI 1.4, one (1) DP 1.4
Audio	Audio over HDMI, one (1) 3.5mm Audio Jack
Memory	32 GB
Storage	1 TB

PHYSICAL

Power	Input 12 V DC, Idle: 12 W - Max: 60 W
Dimensions	7.5 x 5 x 2.7 in., 191 x 127 x 69 mm
Weight	3 lbs. 3 oz, 1.45 Kg
Mounting Options	Desktop, VESA Bracket, Optional 1RU Rack Mount

INTERFACES

External I/O	Six (6) 2.5G RJ-45 Ethernet Ports Two (2) USB 3.0 Type A, 2x USB 2.0 Type A One (1) USB Micro 2.0 (Console) One (1) USB 3.2 Type C, 10Gbps with Display Port One (1) HDMI One (1) Display Port One (1) 3.5mm Audio Jack One (1) 4FF SIM Holder One (1) 12V DC Power Jack, Screw in connector
Wi-Fi	802.11ac/a/b/g/n
Indicators	One (1) LED Power Button (Blue) One (1) LED Power Indicator (Green) One (1) LED Disk Activity Indicator (Red) One (1) LED Disk Activity Indicator (Yellow)

ENVIRONMENTAL

Operating Temperature	+14 – +122 °F, -10 – +50 °C
Operating Humidity	0 – 95% relative humidity, non-condensing

ORDERING INFORMATIO

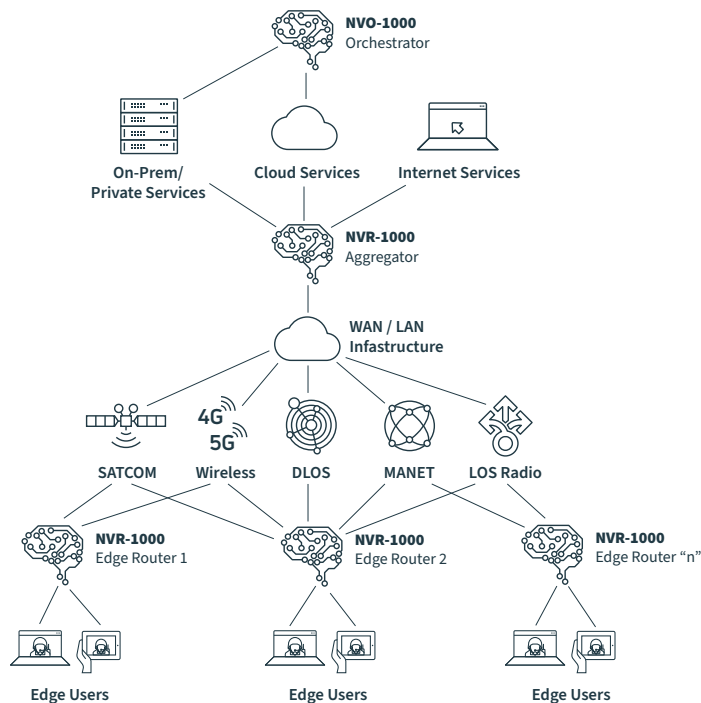|	
Part Number	1436552 – NetAgility™ Mobile Router (NMR) 4650

Figure 2: NetAgility multi-transport, multi-platform, and multi-cloud resilient bonded networks for optimized data sharing and services access.

Figure 3: Rear View