

  
inmarsat

HUGHES 9203

# BGAN PATROL

SATELLITE TERMINAL

**INMARSAT GLOBAL GOVERNMENT**  
COMMUNICATIONS MADE CERTAIN



# THE WORLD'S FIRST BGAN ON THE MOVE TERMINAL FOR USE ON FOOT

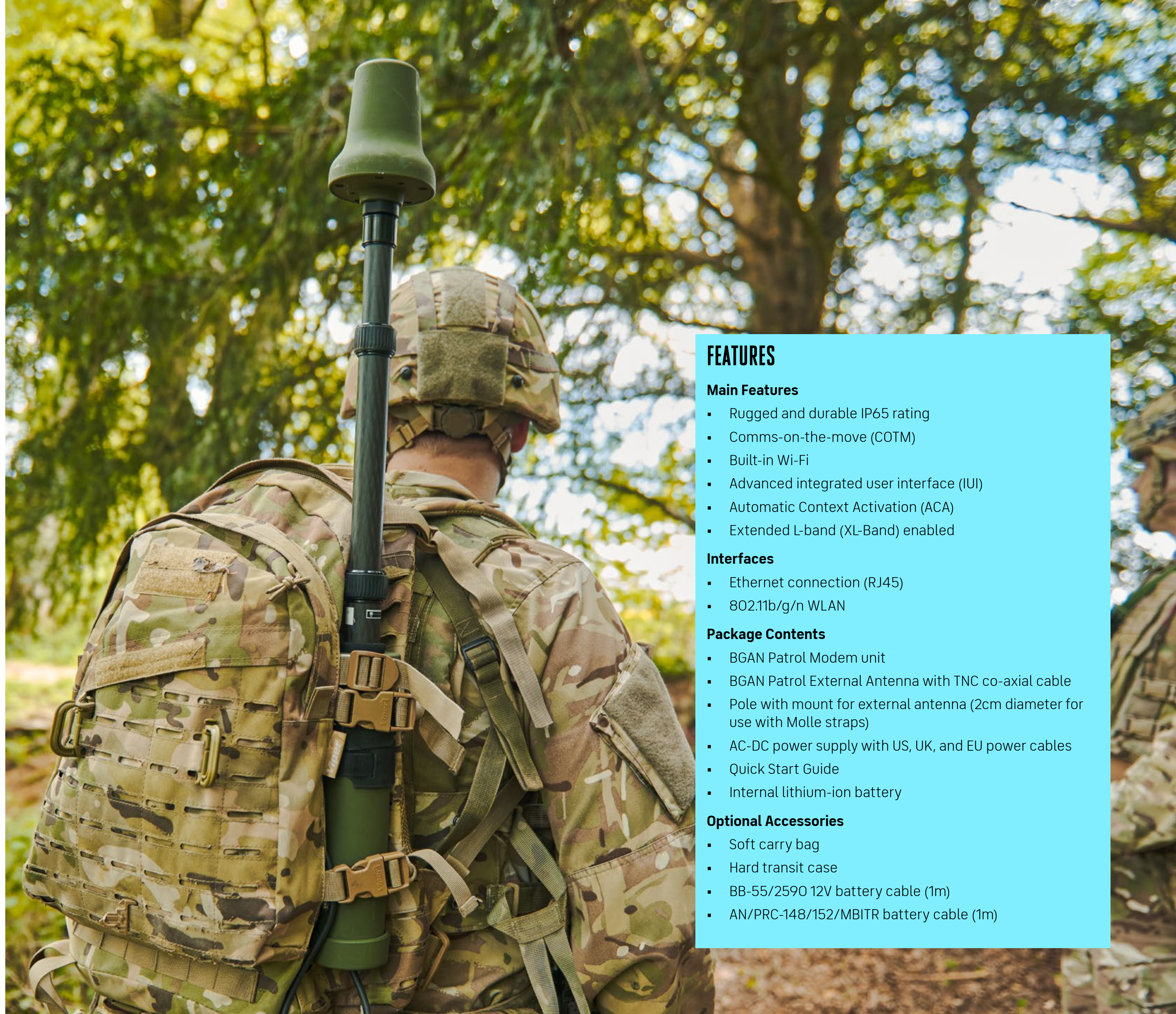
**The compact, lightweight Hughes 9203 BGAN communications-on-the-move terminal enables dismounted soldiers to stay continuously connected to the situational awareness picture via the Battle Management System (BMS) for the first time.**

The BGAN Patrol terminal connects to the satellite network without need for user pointing or intervention and integrates with existing communication systems and batteries. Users no longer need to pause and deploy a static COTP terminal to communicate - reducing vulnerability on the field.

BGAN Patrol provides beyond line of sight (BLOS) communications, extending line of sight (LOS) IP networks independently from any terrestrial networks. Users can connect at standard background IP of up to 100 kbps via ethernet or through the built-in multi-user Wi-Fi feature to support a group of local connections.

End user devices, such as Android Tactical devices, can be connected to the BGAN Patrol terminal to provide data to applications vital to gaining an operational advantage over adversaries in the field. Typical applications include:

- Enablement of Battle Management System (BMS), such as TAK and SitaWare
- Bridging of Mobile Ad-hoc Network (MANET) and Beyond Line of Sight (BLOS) radio networks
- Blue Force Tracking (BFT) of allied forces on live maps
- Laser range finder data to provide an exact distance to long range targets for snipers, artillery, and air support
- Situational Awareness gathering and reception to maximize co-ordination
- Calling for Casualty Medical Evacuation (MedEvac)



## FEATURES

### Main Features

- Rugged and durable IP65 rating
- Comms-on-the-move (COTM)
- Built-in Wi-Fi
- Advanced integrated user interface (IUI)
- Automatic Context Activation (ACA)
- Extended L-band (XL-Band) enabled

### Interfaces

- Ethernet connection (RJ45)
- 802.11b/g/n WLAN

### Package Contents

- BGAN Patrol Modem unit
- BGAN Patrol External Antenna with TNC co-axial cable
- Pole with mount for external antenna (2cm diameter for use with Molle straps)
- AC-DC power supply with US, UK, and EU power cables
- Quick Start Guide
- Internal lithium-ion battery

### Optional Accessories

- Soft carry bag
- Hard transit case
- BB-55/2590 12V battery cable (1m)
- AN/PRC-148/152/MBITR battery cable (1m)



Picture illustrated based on prototype for concept of design and application only. Pole design updated as shown to the right

1m pole with flexible gooseneck top section to ensure antenna can be stowed quickly when required



Three-Pole Segment



9203 BGAN

\* Product currently been designed and integrated by Hughes, specifications and performance are subject to the final design review, acceptance test, validation, and verification.

## SPECIFICATION\*

<b>ANTENNA TYPE</b>	Omni-directional. No pointing required
<b>DIMENSIONS</b>	
Antenna	153 mm x 100 mm Ø
3-Section Pole	1000 mm x 20 mm Ø Goose-neck top section to allow antenna to be stowed quickly for entry to vehicles, etc
Terminal Weight	1.4 kg
<b>FREQUENCY</b>	
Satellite TX Frequency	1626.5-1660.5 and 1668-1675 MHz
Satellite RX Frequency	1518-1559 MHz
GPS Frequency	1575.42 MHz GPS signal via external antenna
<b>BATTERY LIFE</b> (Rechargeable lithium-ion battery only, without external battery):	
Continuous TX Time	Up to 2 hours at 128 kbps
Continuous RX Time	Up to 4 hours at 128 kbps
Standby Time	Up to 36 hours
<b>EXTERNAL POWER:</b>	
AC-DC power cable with US, UK, and EU power cables	
Optional BB-55/2590 12V battery cable (1m)	
Optional AN/PRC-148(MBITR) battery cable (1m)	
Expected battery requirement for 3 days usage at typical 5% TX/5% RX duty cycle:	
- BB-2590 = 1 battery	
- BB-5590 = 2 batteries	
- AN/PRC-148(MBITR) = 4 batteries	
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating Temperature	-5° C to +55° C with battery -25° C to +55° C excluding battery
Storage Temperature	-25° C to +55° C with battery -25° C to +80° C excluding battery
Water and Dust	IP-65 Compliant
Humidity	95% RH at +40° C
Mechanical Vibration	200-2000 Hz, 0.3 m <sup>2</sup> /s <sup>3</sup> ; MIL-STD 810G
<b>CERTIFICATIONS</b>	CE, FCC, EU WEEE, RoHS 3
<b>INTERFACES:</b>	<ul style="list-style-type: none"> <li>1x RJ45 ethernet connector</li> <li>802.11b/g/n WLAN</li> <li>SIM/USIM Slot</li> <li>DC barrel connector</li> <li>WebUI (feature rich, consistent with Hughes BGAN product line)</li> <li>Compatible with the Hughes BGAN App for iOS and Android</li> <li>Internal User Interface (iUI) with LCD and buttons</li> </ul>
<b>ELEVATION RANGE</b>	30° to 90°



# HOW TO BUY

Inmarsat products and services are available through select Inmarsat distribution partners and service providers.

Visit our website to find the right partner for you.

[inmarsat.com/buy](https://inmarsat.com/buy)



[inmarsat.com/government](https://inmarsat.com/government)

While the information in this document has been prepared in good faith, no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability (howsoever arising) is or will be accepted by the Inmarsat group or any of its officers, employees or agents in relation to the adequacy, accuracy, completeness, reasonableness or fitness for purpose of the information in this document. All and any such responsibility and liability is expressly disclaimed and excluded to the maximum extent permitted by applicable law. Coverage as shown on maps is subject to change at any time. INMARSAT is a trademark owned by the International Mobile Satellite Organization, licensed to Inmarsat Global Limited. The Inmarsat LOGO and all other Inmarsat trademarks in this document are owned by Inmarsat Global Limited. © Inmarsat Global Limited. All rights reserved.

BGAN Patrol\_Mil. August 2022