9211 Terminal Kit (Part Number: 3500841-0002)
The rugged and lightweight Hughes 9211 is a budget-friendly, high-data-rate terminal, ideal for media, governments, NGOs, mobile healthcare providers, and more. It includes built-in Ethernet, a replaceable battery pack, RJ11 for voice or fax, an external port to connect a tracking antenna, and a built-in 802.11 Wi-Fi access point.

9202M Terminal Kit (Part Number: 3500566-0004)
A broadband satellite IP terminal with built-in Ethernet, a replaceable battery pack, RJ11 for voice or fax, an external port to connect a tracking antenna, and a built-in 802.11 Wi-Fi access point.

Both Portable Terminal kits (9211/9202M) include:

<table>
<thead>
<tr>
<th>Hughes Land Portable Terminal (9211 or 9202M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rechargeable Lithium-Ion Battery Pack</td>
</tr>
<tr>
<td>5 m Ethernet Cable</td>
</tr>
<tr>
<td>AC/DC Adapter</td>
</tr>
<tr>
<td>Three Power Cables:</td>
</tr>
<tr>
<td>- US Power Cord</td>
</tr>
<tr>
<td>- EU Power Cord</td>
</tr>
<tr>
<td>- UK Power Cord</td>
</tr>
</tbody>
</table>

PORTABLE TERMINAL ACCESSORIES
(for 9211, 9202M)

DC/DC Adapter (Part Number: 3500099-0003)
DC/DC Car Converter

AC/DC Adapter (Part Number: 3500411-0008)
AC/DC Power Adapter
Input: 120 V-240 V, 50/60 Hz, 1.5 A
Output: 20 V, 2.7 A,
Indoor use only

Spare Battery (Part Number: 3501192-0001)
Rechargeable Lithium-Ion
7.2 V, 6.4 Ah, 45 Wh
**PORTABLE TERMINAL ACCESSORIES**
(for 9211 and 9202M)

**US Power Cord (Part Number: 3500637-0001)**
Power Cord for AC/DC Adapter

**EU Power Cord (Part Number: 3500637-0002)**
Power Cord for AC/DC Adapter

**UK Power Cord (Part Number: 3500637-0003)**
Power Cord for AC/DC Adapter

**Australian Power Cord (Part Number: 3500637-0004)**
Power Cord for AC/DC Adapter

**Radio Frequency Pigtail (Part Number: 9505964-0001)**
Required to connect the external (C10 or C11) tracking antenna to the portable terminal

**C10 Antenna Kit (Part Number: 3501057-0001)**
External Antenna Kit for 9211 and 9202M Terminals

**C11 Antenna Kit (Part Number: 3501058-0001)**
External Antenna Kit for 9211 and 9202M Terminals

*Both Antenna kits (C10, C11) include:

<table>
<thead>
<tr>
<th>Tracking Antenna (Class 10 or Class 11)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic Mount Set</td>
</tr>
<tr>
<td>10 m Radio Frequency Cable</td>
</tr>
<tr>
<td>Radio Frequency Pigtail</td>
</tr>
</tbody>
</table>

Other general information
BGAN.Hughes.com
Customers can connect at IP broadband speeds of up to 464 kbps while on the move using the world’s smallest C11 mobile BGAN terminal—the Hughes 9450-C11. Four different versions of the 9450 are available depending on the customer’s interface requirements.

**C11 MOBILE 9450 KITS**
**(9450TW, 9450E, 9450LW, and 9450L)**

<table>
<thead>
<tr>
<th>Hughes 9450 Features by Model</th>
<th>L</th>
<th>LW</th>
<th>TW</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a BGAN or M2M SIM card</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Built-in 802.11 b/g/n Wi-Fi Access Point</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Two RJ11 ports for telephony and fax</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Built-in Four Port Ethernet</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Four Port PoE</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Attach a C10 or C11 antenna</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>L</th>
<th>LW</th>
<th>TW</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10 background IP up to 492/492 kbps</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>C10 streaming GoS up to 265 kbps</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>C11 background IP up to 464/464 kbps</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>C11 streaming GoS up to 128 kbps</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

**9450TW-C11 Terminal Kit (Part Number: 3500497-0021)**
PoE Ethernet, Wi-Fi, RJ11, and Fax

**9450E-C11 Terminal Kit (Part Number: 3500497-0008)**
PoE Ethernet, RJ11, Fax, and ISDN

**9450L-C11 Terminal Kit (Part Number: 3500497-0015)**
Ethernet (No PoE)

**9450LW-C11 Terminal Kit (Part Number: 3500497-0019)**
Ethernet (No PoE) and Wi-Fi

*All 9450-C11 Terminal kits (9450TW, 9450E, 9450L, and 9450LW) include:

<table>
<thead>
<tr>
<th>Hughes 9450 Mobile Terminal (9450TW, 9450E, 9450L, 9450LW)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Cable</strong></td>
</tr>
<tr>
<td><strong>10 m Radio Frequency Cable</strong></td>
</tr>
<tr>
<td><strong>Class 11 Tracking Antenna</strong></td>
</tr>
</tbody>
</table>

Other general information
BGAN.Hughes.com
Customers can connect with IP broadband speeds of up to 942 kbps while on the move using the reliable 9450-C10. Four different versions of the 9450 are available depending on the customer’s interface requirements.

**9450TW-C10 Terminal Kit (Part Number: 3500497-0020)**
PoE Ethernet, Wi-Fi, RJ11, and Fax

**9450E-C10 Terminal Kit (Part Number: 3500497-0012)**
PoE Ethernet, RJ11, Fax, and ISDN

**9450L-C10 Terminal Kit (Part Number: 3500497-0014)**
Ethernet (No PoE)

**9450LW-C10 Terminal Kit (Part Number: 3500497-0018)**
Ethernet (No PoE) and Wi-Fi

*All 9450-C10 Terminal kits (9450TW, 9450E, 9450L, 9450LW) include:

- Hughes 9450 Mobile Terminal (9450TW or 9450E or 9450L or 9450LW)
- Power Cable
- 10 m Radio Frequency Cable
- Set of 3 Magnetic Mounts
- Class 10 Tracking Antenna

Other general information
BGAN.Hughes.com
9450 RF Cable (P/N: 3501053-0001)
Coaxial 10 m Radio Frequency Cable, TNC-TNC

9450 Power Cable (P/N: 3500472-0001)
Used with all the 9450 Modems for permanent installation in vehicle

9450 Power Cable, Cigarette Lighter (P/N: 3500472-0002)
Used with all the 9450 Modems for temporary installation in vehicle (cigarette lighter)

9450 AC/DC 150 W Power Adapter (P/N: 3501318-0001)
Used with all 9450 modems
Input: 120–240 V, 50/60 Hz, 2.0 A
Output: 24 V, 6.25 A
Indoor use only
Certified for use worldwide, including in Mexico, India, and Brazil

WLAN Antenna (P/N: 9506197-0001)
Used with the 9450TW and 9450LW Modems

C11 Spare Antenna (P/N: 1504875-0003)

C10 Spare Antenna (P/N: 1504876-0001)
The C10 Spare Antenna includes:

   Set of 3 Magnetic Mounts

Magnetic Mounts (P/N: 3501152-0002)
Used with the C11 Antenna kit

Magnetic Mounts (P/N: 3501152-0001)
Used with the C10 Antenna kit
The 9410 is a fully integrated Land Mobile C11 Satellite Terminal with Ethernet and WLAN interfaces. The terminal operates with a BGAN or BGAN M2M SIM and can be used for primary communications or as an LTE failover backup across a range of deployment scenarios, with or without human interaction. Two different options are available depending on the customer’s interface requirements.

**9410LW Terminal Kit (P/N: 3501431-0001)**
Ethernet, Wi-Fi

**9410L Terminal Kit (P/N: 3501431-0002)**
Ethernet

### 9410 MOBILE TERMINAL ACCESSORIES

- **Power and Data Cable, Blunt Wire, 5 m (P/N: 3501314-0002)**

- **Power and Data Cable, Blunt Wire, 10 m (P/N: 3501314-0003)**

- **Power and Data Cable, Cigarette Lighter Plug, and RJ45 Socket, 5 m (P/N: 3501314-0004)**

- **RJ45 Wiring Block (P/N: 9510250-0002)**

- **Magnetic Mounts (P/N: 3501152-0002)**

- **Mating Power and Data Connector, Bare (P/N: 9509554-0001)**

- **Custom Power and Data Cable, 8.5 mm OD, 100 m (P/N: 9509897-0001)**
  The bulk cable and solder-ready barrel connector allow for custom cable installations.
9502 Kit (P/N: 3500509-0001)
The Hughes 9502 IP satellite terminal provides reliable connectivity for IP SCADA and Machine-to-Machine (M2M) applications. The terminal consists of an Indoor Unit (IDU), an external antenna, and an RF cable.

9502 Kit, C1/D2-Compliant (P/N: 3500509-0004)
Note: This version of hardware is C1/D2- and ATEX-compliant for hazardous locations

All 9502 kits include:

<table>
<thead>
<tr>
<th>Hughes 9502 Modem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Cable</td>
</tr>
<tr>
<td>10 m Radio Frequency Cable</td>
</tr>
<tr>
<td>Class 2 External Antenna</td>
</tr>
</tbody>
</table>

9502 One-Piece (P/N: 3500753-0021)
Introduced as an alternative to the external antenna version of the 9502, this product integrates the 9502 Modem with a compact antenna to create a single-piece, integrated, rugged terminal that can withstand the most extreme weather conditions

9502 One-Piece, C1/D2-Compliant (P/N: 3500753-0022)
Note: This version is C1/D2- and ATEX-compliant for hazardous locations

All 9502 One-Piece assemblies include:

<table>
<thead>
<tr>
<th>Hughes 9502 Chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP-66 Housing with End Caps</td>
</tr>
<tr>
<td>Flat-Panel Antenna</td>
</tr>
</tbody>
</table>
Spare 9502 Antenna Assembly (P/N: 3500638-0002)
External Antenna for 9502

The assembly includes:

- N Type Connector
- 10 m Radio Frequency Cable

Basic Fixed Mount Kit (P/N: 3004066-0004)
Used to mount the 9502 External Antenna or 9502-1 One-Piece Terminal

The kit includes:

- Fixed Mount Stand
- Ground Cable
- Level
- Azimuth Elevation Bracket
- Hex Screw, quantity 4
- Washer, quantity 4
- Installation Guide

9502 IDU Strap (P/N: 3500617-0001)
Used for permanently mounting the Hughes 9502 IDU

Spare 9502 IDU (P/N: 3500563-0008)

Spare 9502 IDU C1/D2 and ATEX Compliant (P/N: 3500563-0006)

The interfaces used for all of the 9502 IDUs are:

- Ethernet
- USB
- SIM Card
- TNC-Type Radio Frequency Connector
- 2-Line Power
- Function Button

Azimuth Canister Bracket (P/N: 1022994-0022)
Used with the External Antenna and 9502-1 One-Piece Terminal:
The Azimuth Canister Bracket is used to mount the External Antenna or 9502-1 One-Piece Terminal onto a 4 cm (1.6") diameter pole

Azimuth Canister Bracket (P/N: 1022994-0024)
Used with the External Antenna or 9502-1 One-Piece Terminal:
The Azimuth Canister Bracket is used to mount the External Antenna or 9502-1 One-Piece Terminal onto a 5 cm (2.0") diameter pole

Spare Parts Kit, 9502 One-Piece (P/N: 3500795-0001)
Low-Profile BGAN (LPB) (P/N: 3500910-0001)
The Hughes Low-Profile BGAN (LPB) Terminal consists of a modem and antenna that are IP-67 rated for outdoor use and can be installed below ground-surface for inconspicuous operation.

The kit includes:

<table>
<thead>
<tr>
<th>Hughes LPB Modem</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPB Antenna</td>
</tr>
<tr>
<td>3 m Radio Frequency Cable, Right Angle</td>
</tr>
<tr>
<td>3 m Radio Frequency Cable, Straight</td>
</tr>
<tr>
<td>Pointing Wedge</td>
</tr>
<tr>
<td>Power Cable</td>
</tr>
<tr>
<td>Ethernet Cable</td>
</tr>
</tbody>
</table>

LOW-PROFILE TERMINAL ACCESSORIES (LPB)

Antenna LPB (P/N: 3500873-0001)

LPB 3 m Radio Frequency Cable, Right Angle TNC (P/N: 3500873-0003)

LPB 3 m Radio Frequency Cable, Straight TNC (P/N: 3500873-0002)

LPB 6-Pin Ethernet Cable (P/N: 9505473-0001)

LPB 3-Pin Power Cable, 6 ft. (P/N: 9505472-0001)