Universat ITALIA Services
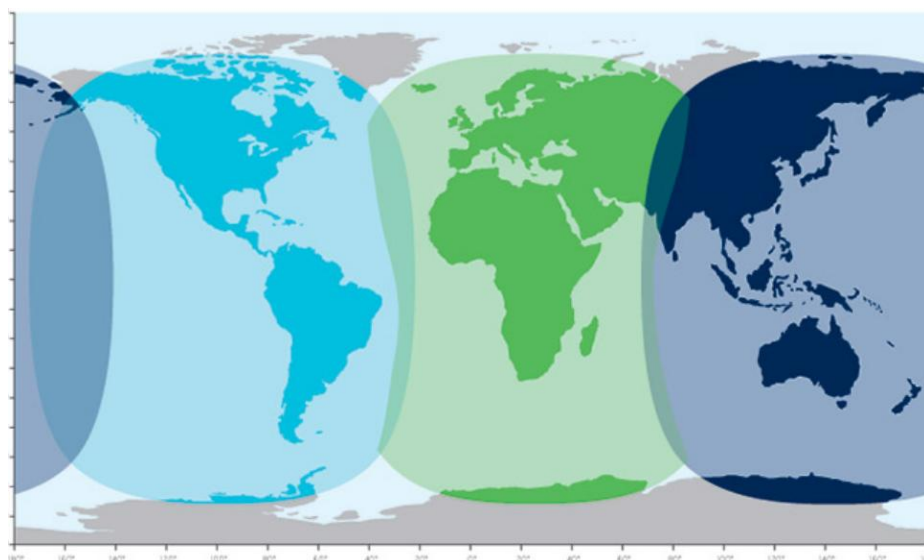GLOBAL SATELLITE COMMUNICATIONS

EXPLORER 710
Portable and Lightweight BGAN Terminal

The new **EXPLORER 710** is the world's smallest Class 1 BGAN terminal and the first to take advantage of Inmarsat's new service, BGAN HDR (High Data Rate), providing on-demand streaming. The EXPLORER 710 will deliver high-speed, ultra-portable satellite streaming at rates of **up to 800kbps** out of the box for broadcasting and other IP-based industry applications.

Features and Benefits

- **Broadband Data**
  With standard IP at speeds up to 492kbps get access to email, the internet, corporate networks and send large file attachments over a secure connection.

- **Streaming IP**
  Through Inmarsat's High Data Rate streaming service receive around 650kbps on-demand streaming.

- **Simultaneous Voice and Broadband Data**
  Make phone calls at the same time as accessing data applications via a standard desktop phone.

- **Bring Your Own Device**
  Users are able to connect their own devices such as Smart Phones for voice calling and connectivity. Other features includes a USB host interface, hot-swappable batteries, a large easy-to-use LED display and multiple interfaces to support a wide range of applications from any mobile phone.

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- **SMS**
  Send and receive text messages via your laptop – up to 160 characters – to and from any mobile phone.

- **Plug and Play Bonding**
  Simply connect two EXPLORER 710's and double the throughput via Ethernet to achieve IP streaming rates of over1 Mbps - closer to standard definition broadcast quality. A low-end VSAT capability in a portable BGAN form factor.

- **Robust Hardware**
  Terminals are lightweight and compact, yet reliable and durable with a humidity, dust, weather and temperature-resistant design.

- **Easy to Use**
  The system is easy to setup and operate; just plug in a laptop or PDA, or use the Bluetooth or ISDN interface, point the antenna towards the BGAN satellite.

- **Global Coverage**

BGAN COVERAGE

This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions. BGAN coverage February 2009.

I-4 Americas

I-4 Alphasat

I-4 Asia-Pacific

PHYSICAL CHARACTERISTICS

Weight
< 3.5kgs (<7.7lbs)

Dimensions
Height: 332mm (8.5")
Width: 279mm (8.5")
Depth: 54mm (2.0")

Approvals (at launch) Inmarsat
Class 1 Type Approval CE & FCC

DATA CAPABILITIES

Standard IP

Background class of service Up to 492kbps

Streaming IP

Guaranteed quality of service 32, 64, 128kbps

Multiple IP streaming sessions simultaneously

BGAN X-Stream

256 kbps

High Data Rate Streaming

Around 650kbps, Min300kbps (Half-channel HDR)

ISDN data

UDI (64kbps) / RDI 56kbps

SMS

160 characters

INTERFACES

Analogue RJ-11 phone / fax interface

2 x LAN interface
Connector type: RJ-45
Data rate: 10/100 Mbps
Max. cable length: 100m / 328ft (Cat5 UTP)

1 x USB host interface
Version: 2.0 (host)
Connector type: A plug
Charging: Up to 2A

2 x ISDN interface
Connector type: RJ-45
Max. units per port: 8, max. total power supplied 1W

1 x Transceiver/Antenna interface
Connector type: TNC-TNC
Max. cable length: 100m / 328ft, single coax
Max. cable loss: 1.4 / 20dB @ 1.5GHz

2 x BGAN SIM-Card slots

WLAN Access Point (not included in 403720A-00510)
Standard: IEEE 802.11 b/g **User**
interfaces
PMOLED Display
Five navigation keys
Audio and LCD pointing aids
LED indicators
Compass

TOLERANCES

Ambient operating temp
-25°C to +55°C
(-13°F to +131°F)

Storage (excl. battery)
-40°C to +80°C
(-40°F to +176°F)

Battery storage temperature
1 month: -20°C to +60°C (-4°F to +140°F)
3 months: -20°C to +45°C (-4°F to +113°F)
1 year: -20°C to +20°C (-4°F to +68°F)

Water and Dust
(Ingress protection)
Transceiver: IP52
Antenna: IP66

RADIO SPECIFICATION

Inmarsat Frequencies
1518.0 - 1525.0 MHz (Rx) (EMEA)
1525.0 - 1559.0 MHz (Rx)
1626.5 - 1660.5 MHz (Tx)
1668.0 - 1675.0 MHz (Tx) (EMEA)

VOICE CAPABILITIES

Voice
Standard voice: 4kbps Premium voice: 3.1 kHz audio, 64kbps

POWER

DC input range
10-32VDC

Power consumption
Intelligent Power Management 65W (max.)

AC/DC power supply
Input: 100-240VAC, 47-63Hz, 65W
Output: 19VDC
Connector type: 2.5 / 5.5 mm power jack

Battery
Lithium ion, (rechargeable)

Stand-by time
36 hours

Receive time, max.
3h30m @ 492kbps

Transmit time, max.
2h30m @ 144kbps
1h30m @ 492kbps

EIRP
20 dBW ±1dB

BGAN EXPLORER 710
Data Sheet