

THE 1.3 KG THAT GIVES YOU BROADBAND WHERE THERE IS NO BROADBAND

WORLD LEADERS

Thrane & Thrane is world leader in terminals and land earth stations based on the Inmarsat satellite services. Around 300,000 Inmarsat terminals have been sold world-wide. Approximately 100,000 of these have been delivered by Thrane & Thrane.

Innovation without Limits

Our focus on new technology development and constant innovation has assured us a position as preferred development partner for Inmarsat. Creating the broadband infrastructure of the future, Thrane & Thrane has been commissioned to develop the Radio Access Network for Inmarsat's BGAN high-speed satellite system. Just one proof of how we continue to bring new, innovative solutions to the market.

“Competent and creative engineers that think extreme and act rationally.”

– Lars Thrane, Founder & President



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THRANE & THRANE EXPLORER™ – BROADBAND ON THE SPOT

Inmarsat – pioneering satellite communication

It all began in 1979. At first, the focus was maritime security in far away waters. Today Inmarsat is the leading satellite communication network of the world. Inmarsat provides satellite communication services to ship owners, business people, TV broadcasters, aid workers, governments, airlines and many others. BGAN is Inmarsat's newest, most advanced offering.

Introducing the Broadband Global Area Network (BGAN)

We've all got used to broadband in heavily populated areas. Now you can get it wherever you go. Inmarsat's Broadband Global Area Network (BGAN) is a new mobile satellite service that offers high-speed data as well as voice telephony. The service is initially avail-

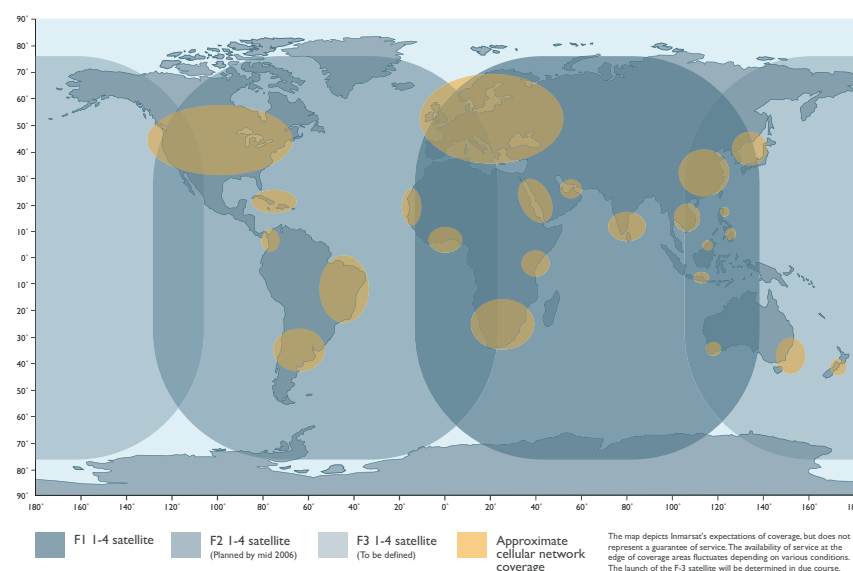
able throughout Europe, Africa, the Middle East and Asia. In 2006, coverage will be extended to include the Americas. Complete global coverage is expected at a later date.

When we say fast

In 72 % of the world BGAN is the better form of communication. Period. It offers faster data transfer than 3G mobile telephony – up to 492 kbps is comparable to most fixed line broadband connections which are only available in very limited areas of the world. Yet

BGANs coverage far outperforms even the leading cellular networks. And to top that BGAN airtime will often be cheaper than comparable cellular roaming prices. Simply put: BGAN offers a lot more. Sometimes even for less.

Inmarsat BGAN coverage



EXPLORER™ 500



LIGHT BGAN FROM THE WORLD LEADER

Imagine being at the outskirts of Baku. It's hot. Nothing seems to be working. But the job must be done. Communicating with the head office, especially, used to be a drag. Not any more. With Thrane & Thrane EXPLORER™ 500 your broadband connection is right there in the bag beside you. Just point the antenna and you are all set. The status report, CAD drawing or high res photo is quickly sent off.

A really attractive package

The EXPLORER™ 500 is flexibility, ease of use and reliability in one lightweight package:

- Simultaneous voice and data communication
- High-speed data transfer up to 464 kbps
- Seamless global coverage

- Support for streaming video or audio at up to 128 kbps
- Flexible connections with Ethernet, USB and Bluetooth
- Easy system setup and operation
- Lightweight, splash and dust proof
- Robust, reliable and durable

A better BGAN terminal

Our smallest BGAN terminal is so lightweight many customers bring two! At just over 1 kg it'll always fit in your luggage. It's easy to set-up, easy to use, and it's constructed to last. Apart from that, it's encouraging to know that your BGAN terminal is from the company who developed the BGAN earth stations. The company which is also the leading supplier of terminals for the Inmarsat network.

BRING YOUR OFFICE ANYWHERE

How you use broadband depends on your job, of course. You dream up the application, Thrane & Thrane EXPLORER™ 500 delivers.

Live television streaming

When you're on the spot events unfolding right in front of you you're no longer confined to an erratic satellite connection to transmit in inferior quality. Now you can stream video in reliable 128 kbps quality.

Videoconferencing

You're in Bolivia, your colleague in Johannesburg. Your boss sits in Frankfurt and the attending government officials just travelled to Addis Ababa. Your video conference no longer lags, skips or gets disconnected.

Large file transfer

If you're working with graphics, databases or other heavy data volumes, you know the importance of a fast network. You'll definitely appreciate BGAN.

Send and receive photos, video, audio, multimedia files.
Press photo: 3.2 Mb. Sent in less than 2 minutes. Interactive product demo: 8.9 Mb. Downloaded for sales presentation in 5-6 minutes. Not even time enough to rehearse your pitch.



E-mail – More and more often, the crucial part of an e-mail is contained in an attachment. With EXPLORER™ 500 reading e-mail and fetching attachments is swift and easy.



Full internet experience – The World Wide Web first took off when broadband became widespread. With Thrane & Thrane EXPLORER™ 500 you can view C-SPAN online, check the NASDAQ movements or research your corporate website with no lag or drag.



Fax – Easily connect your fax via cable.



Phone – You can connect one handset via cable to the EXPLORER™ 500. The wireless Bluetooth connection offers support for up to 7 devices, including head-, hand- and earsets.



Corporate LAN – With a Virtual Private Connection you gain access to your corporate network from places you've never even dreamed of. Your work will not be hindered by a slow connection.



Live broadcast in 5 minutes

The news don't wait for slow connections. When the story is there you don't have time for bottlenecks. With the Thrane & Thrane EXPLORER™ 500 you can set up a broadcast terminal in a matter of minutes, and be transmitting in reasonable, reliable quality on the spot. Without an OB truck. When you're back at the hotel, you won't be the one cursing about the undependable fixed line modem connection when e-mailing the latest footage or photographs. Plus you won't have to compromise on quality anymore. With up to 464 kbps even the largest files are quickly dispatched.



Recon reporting – now with live video

They say a picture is worth a thousand words. How much are moving pictures worth then? Why not use video to document heated situations? Or send in a high res photo of something suspicious for closer inspection?

BGAN opens new possibilities for military communications, whether peace keeping or in more aggressive situations. The Thrane & Thrane EXPLORER™ 500 is perfectly suited for demanding-but-not-extreme situations.

New materials stats e-mailed to Mongolia

If there is one place you can be sure there is neither cell coverage nor even fixed line telephony it's the Gobi desert. So what do you do when you're out there on inspection on the road project your company just won? Stuff the EXPLORER™ 500 in your laptop bag, and not only will you be able to call headquarters for that crucial management endorsement, you'll get it in writing in seconds.

If you need to check some construction details, but forgot to bring the drawings, well, you simply log onto the company network. In a few minutes the drawings appear on your screen. It may be dry in the desert, but you'll never thirst for knowledge with the EXPLORER™ 500.



EASY TO USE, EASY TO MAINTAIN



Point and connect – The built-in compass makes it easy to point the antenna in the right direction.

Plug'n'play – You'll never have to fumble with complicated set-up procedures. Just plug in a communication device and you're connected.

Durable design – Constructed for use in the field with very few movable parts and resistant to dust and splashes.

Customizable – Basic operations are easily performed from the intuitive control panel. To change settings and customize the terminal you simply hook up a PC or PDA, either via Ethernet or wirelessly via Bluetooth.



BGAN – TERMS AND CONCEPTS

BGAN – Broadband Global Area Network. Inmarsat's term for the new global broadband network. In this case broadband means data transfer at up to 492 kbps equivalent to most ADSL-lines.

R-BGAN – Not to be confused with BGAN. Inmarsat's Regional-Broadband Global Area Network offers data communications up to 144 kbps in selected areas. In contrast to BGAN, R-BGAN does not offer either voice or streaming IP (see below). Thrane & Thrane currently does not market any R-BGAN terminals.

GAN – Global Area Network, the term is constructed on the model of the Local Area Network (LAN), which has become the standard for offices all over the globe. The Inmarsat GAN offers wireless ISDN all over the globe. The Messenger is Thrane & Thrane's GAN terminal.

Standard data – With standard data you get a variable transfer rate, depending on terminal, geographic location and conditions. BGAN allows data transfer at up to 492 kbps.

Streaming IP – Streaming is a technique for transferring data to be processed as a continuous stream – e.g. live video or audio. Typically demands high bandwidth. BGAN offers guaranteed bit rates of 32, 64, 128 and 256 kbps.

Standard voice – BGAN is not just a data service but offers worldwide telephony as well. Just dial 00, country code and phone number and you can speak to anyone in clear voice, at a high quality. Standard voice takes very little bandwidth at 4 kbps. Voice mail included.

Premium voice – Premium voice is uncompressed audio in pristine quality. Uses more bandwidth. More advanced voice services are also possible, such as call waiting, call holding, call barring and call forwarding.



Bluetooth – Bluetooth makes a lot of cables redundant. It is a short distance wireless connection allowing head- and handsets as well as PCs to connect wirelessly.

VPN – A Virtual Private Network is a software solution that allows users to securely access a corporate network via the internet. From Ulan Bator via the Thrane & Thrane EXPLORER™ 500, for instance.

