



FleetBroadband TT-3740A and TT-3742A

Inmarsat Satellite Terminals



Inmarsat FleetBroadband terminals are the latest equipment generation for satellite communication based on Inmarsat's new I-4 satellite services. Choose between either FleetBroadband TT-3740A (FB 500) , FleetBroadband TT-3742A

(FB 250) or FleetBroadband TT-3744A (FB 150) for reliable high-speed IP communication. The new FleetBroadband terminals offer all mariners a whole new level of maritime satellite communication.

Features

- IP connection for e-mail and internet/intranet access including secure VPN
- Streaming IP (Quality of service; i.e. guaranteed bandwidth)
- ISDN (FleetBroadband TT-3740A only)
- Voice and data simultaneously
- Small size hardware



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FleetBroadband TT-3740A and TT-3742A

Technical Data

Remarkable Data Speed

These unique solutions give you faster, more cost-effective access to data services than ever before. Data speed becomes especially remarkable when compared with weight and size of the antennas. At a diameter of only 600 mm and weighing just 16 kg the FB 500 delivers an amazing data speed of up to 432 kbps. The FB 250 is based on the same architecture and with its compact antenna of less than 300 mm diameter and 5 kg weight it offers data speeds up to 284 kbps. The FB 150 terminal is a competitive single-user solution with data speeds up to 150 kbps. It has been designed for smaller vessels and may be used as back-up terminal to other satellite communication systems.

VoIP Handset

As an important part of this offering, the FleetBroadband solutions include a new type of handset. With this handset companies will be able to integrate their telecommunications and infrastructure, streamlining the whole operation. The handset has been developed with a special focus on the users and the features they need.

Advantages

Simultaneously having access to voice and high-speed data services on a global basis will revolutionize data success on vessels. Sea chart information, online weather data, route planning and crew calling can all be undertaken at the same time, highly increasing information efficiency on board. Operation and service of FleetBroadband will continue for many years ensuring a stable platform for the future.

Type Approvals	Inmarsat FleetBroadband approved, compliant to RTTE, CE marked, FCC	
Frequency Band	RX: 1525.0 - 1559.0 MHz	TX: 1626.5 - 1660.5 MHz
Channel width:	RX: 10.5 - 189 kHz	TX: 21 - 189 kHz
Recommended Antenna Cable		
Cable loss min/max	4 / 20 dB at 1.62 GHz and 4 Ω DC loop resistance	
RG-223	min 7 m / max 25 m	
RG214 - FRNC	min 12 m / max 50 m	
S10162B11	min 30 m / max 100 m	
RG 1/2" 50	min 45 m / max 100 m	
Antenna Connector	BDU: TNC socket, female	ADU TT-3740A: N (50 Ω) female ADU TT-3744A: TNC (female)
Global Services		
Voice	4 kbps AMBE+2	TT-3740A/TT3742A: 3.1 kHz Audio
Data	TT-3740A: 64 kbps UDI (ISDN)	
Standard IP	TT-3740A: 432 / 432 kbps	TT-3742A: 284 / 284 kbps
Streaming IP	TT-3740A: 32, 64, 128, 256 kbps	TT-3742A: 32, 64, 128 kbps
SMS	Up to 160 characters	
Telephone Functionality		
	Phone book	
	Message indication	
	Restricted dialling	
	Traffic logging	
Set-up and Router Functionality		
	Web server	
	Built-in NAT router	
Interfaces		
	- Power on/off button	
	- DC heavy duty power input connector with Remote on/off and locking mechanism	
	- 10/100 Mbit Ethernet LAN user ports with Power over Ethernet (PoE), 4x at TT-3740A/TT3742A, 2x at TT-3740A	
	- 1 x Euro ISDN (TT-3740A/TT-3742A)	
	- Sim card	
	- Factory default reset button	
	- Independent RJ-11 phone 2-wire connector: 2x at TT-3740A/TT-3742A, 1x at TT-3744A	
	- 5 x I/O connector with General Purpose I/Os	
	- L-band output at TT-3740A/TT-3742A	
	- Status LEDs at TT-3740A/TT-3742A	
	- Power LED only at TT-3744A	
Environmental Conditions		
Ambient temperature	-25 to +55°C	
ADU storage	-40 to +85°C	
Survival (power on, non functional)	-40 to +80°C, automatic thermal surveillance shuts down terminal gradually at +85°C PCB temperature	
Operating humidity	95% non-condensing at +40°C	
Class of protection	BDU: IP31	ADU: IPX6
Power Supply and Consumption		
DC input range (isolated)	10 to 32 V DC	
Power (max), incl. antenna	150 W between 10 to 32 V	
Dimensions and Weight		
Above deck unit	TT-3740A: 605 x Ø 630 mm, 19 kg TT-3742A: 329.2 x Ø 275.6 mm, 4.2 kg TT-3744A: 291.9 x Ø 275.6 mm, 3.9 kg	
Below deck unit	TT-3740A/TT-3742A: 42.5 x 264.5 x 273 mm (H x W x D), 2.5 kg TT-3744A: 41 x 231 x 278 mm (H x W x D), 2.0 kg	

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