

Intellian

NEW INTELLIAN FB500

January 2023

MODERN, FULLY FEATURED FLEETBROADBAND TERMINAL WITH INTELLIAN QUALITY AND SUPPORT



- ◆ Inmarsat FleetBroadband service
- ◆ Incorporates Inmarsat's latest L-band modem
- ◆ Designed for use as part of an FX installation or as a stand-alone terminal
- ◆ 'All in one' solution
- ◆ GMDSS ready (Maritime Safety Terminal compatible)
- ◆ Regional logistic centers
- ◆ Easy installation & commissioning
- ◆ Intuitive yet powerful terminal management software
- ◆ Responsive global support teams

INTELLIAN FLEETBROADBAND TERMINALS

COMPLETING THE PORTFOLIO

Intellian



Available
NOW



Available
NOW



Available
January
2023

	Fleet One F4	FB 250 F4	FB 500 F4
Max data rate (kbps)	150	284	432
Concurrent voice & data	Yes	Yes	Yes
Streaming rates (kbps)	n/a	8/16/32/64/128	8/16/32/64/128/256
Fleet edge	No	Yes	Yes
MST ready	Yes	Yes	Yes
Use for:	Voice Email Simple internet pages	Voice Email Moderate websites Low res video	Voice Email Complex websites SD video/team calls

WHY INTELLIAN'S FB500?

- ✦ Modern L-band terminal that incorporates Inmarsat's latest L-band modem
- ✦ Tried & tested
 - Much of the technology is common with the FB250
- ✦ A perfect companion
 - Pair with one of Intellian's marketing leading GX VSAT terminals
- ✦ Lower total cost of ownership
- ✦ 'All in One' solution
- ✦ Cyber secure
- ✦ AptusLX L-band terminal management software - intuitive yet powerful

A PERFECT COMPANION

- ✦ Pair with one of Intellian's market leading GX VSAT terminals
- ✦ Easily integrated using Fleet Edge or a 3rd party SoftNSD solution
- ✦ Comprehensive & documented API library
- ✦ Provides 'fail over' and out of band management (OOBM)



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FB500

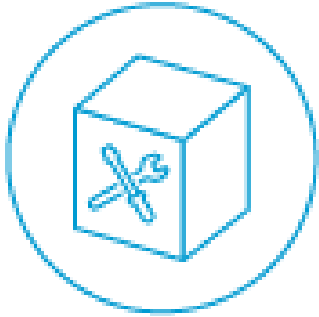


GX100NX2



*Fleet Xpress
rack*

MINIMISE TOTAL COST OF OWNERSHIP & MAXIMISE RETURN ON INVESTMENT



COST OF EQUIPMENT & INSTALLATION

- Delivered from regional logistics centers
- Low total equipment cost
- Minimize installation cost



AIRTIME COST

- Automatic WAN switching
- Control connected device usage
- Prevent out-of-policy usage
- Comprehensive usage reporting

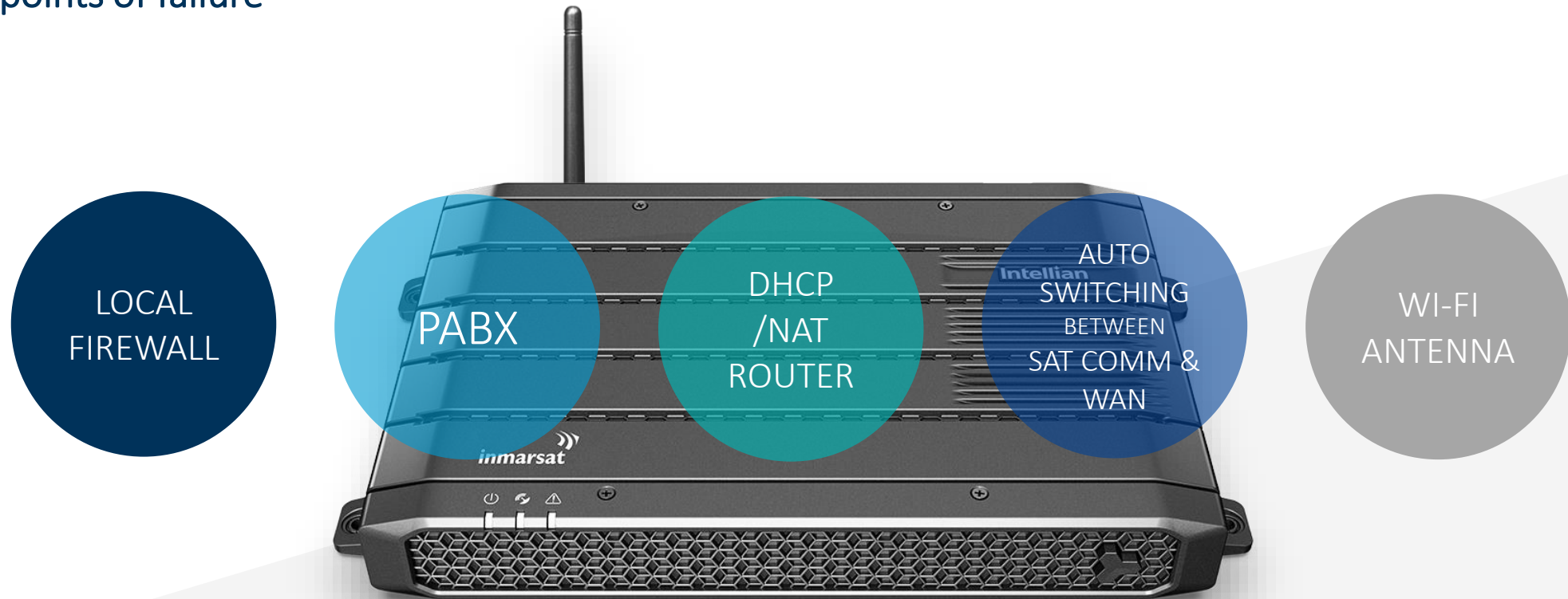


AVAILABILITY ON-BOARD

- Responsive global support
- Highly reliable
- Excellent warranty included
- Cyber secure

ALL-IN-ONE SOLUTION

- ◆ No hidden cost for additional equipment
- ◆ Simple installation and configuration
- ◆ Less points of failure



- ◆ HTTPS, TLS certificate
for terminal management software
- ◆ Built-in firewall
 - Prevent access from unauthorised sites
- ◆ Registration of connected devices
- ◆ Encrypted communication between BDU and ADU
- ◆ Encrypted firmware data
- ◆ Regular firmware updates



- ♦ Intuitive and powerful
- ♦ Secure login
 - both locally onboard and remotely by support teams
- ♦ Customisable dashboard
- ♦ Multi-language support



WHY INTELLIAN?

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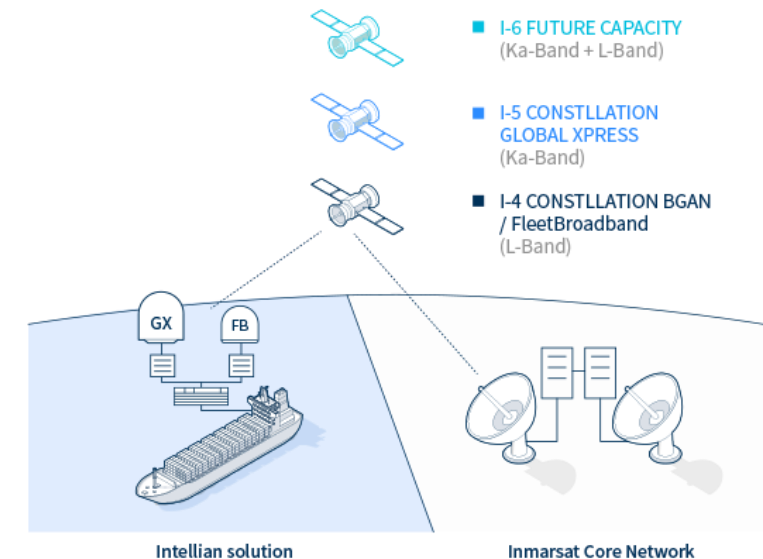
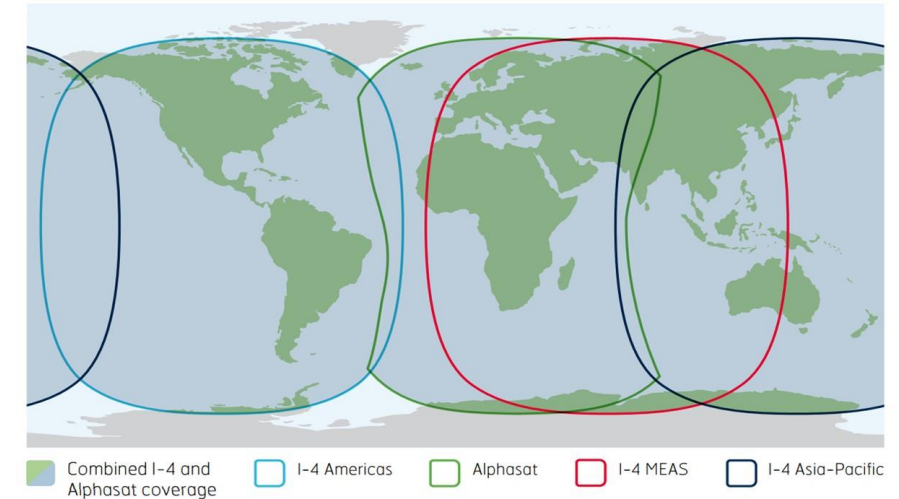
- ◆ Market leader in maritime VSAT
- ◆ 59% of global maritime VSAT market[†]
- ◆ Complete Portfolio on GX, FX Solutions
 - GX100NX2 / GX100NX / GX60NX2 / GX60NX
 - FB500 / FB250
 - Factory built Fleet Xpress rack
- ◆ Global support & logistics
 - Partner Portal
 - Responsive global support teams
 - Regional logistic centers

[†] Valour VSAT Report (2022)



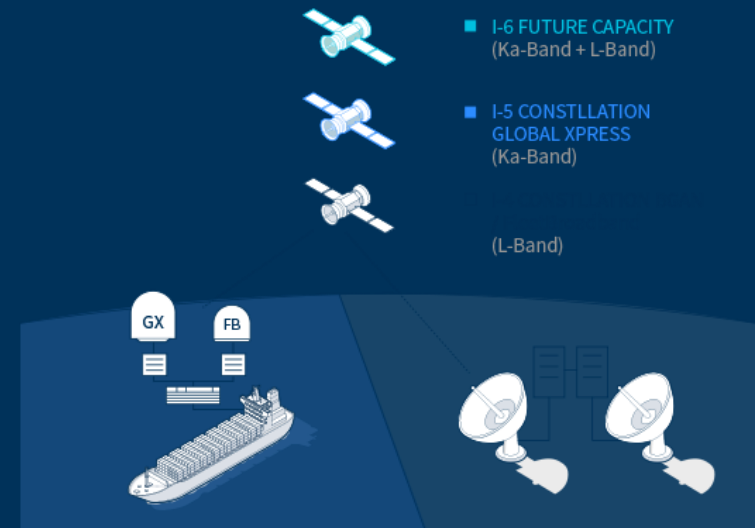
WHY INMARSAT FLEETBROADBAND?

- ◆ **Global coverage**
 - Inmarsat combined I-4 and Alphasat coverage
 - Inmarsat I-6 will provide even more capacity
- ◆ **No rain-fade issue**
- ◆ **Proven L-band service**
 - Most widely used “Broadband” satellite communication solution
- ◆ **Simultaneous voice and data**
- ◆ **Unlimited backup to Fleet Xpress solution**
 - Powerful combination of unique benefits
 - Ka-band with unlimited L-band back-up, ensuring seamless global mobility
- ◆ **GMDSS ready**



FB500 F4

DETAILS



FB500 ABOVE DECK UNIT (ADU)

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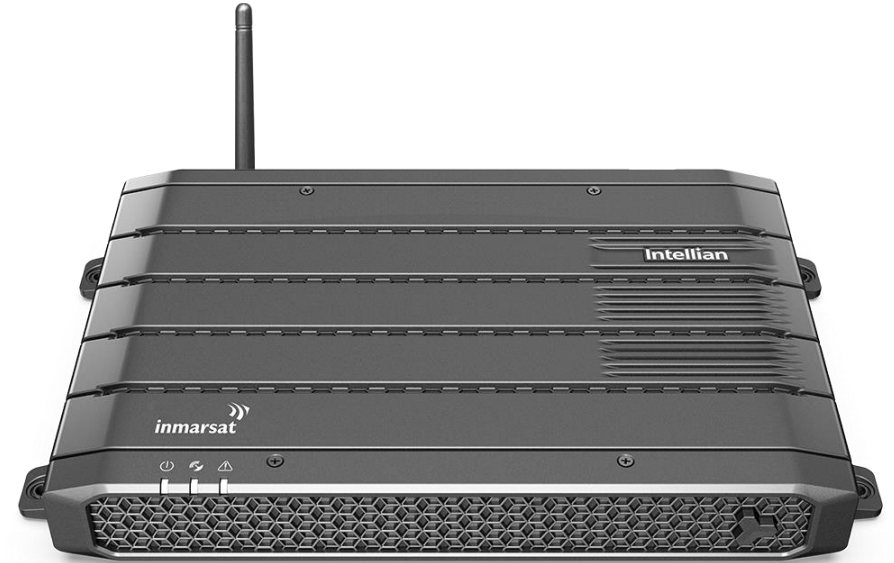
- ✦ 3-axis 19 patch array antenna
- ✦ Unlimited azimuth rotation
- ✦ Ethernet over coax
- ✦ GNSS
- ✦ Mounting bolt pattern matches main competitors'



Dimensions:	Dia	= 733 mm
	Height	= 797 mm
Weight:	29.5kg	

FB500 BELOW DECK UNIT (BDU)

- ✦ IP31 water / dust ingress
- ✦ Analog POTS port (RJ14)
- ✦ Four ethernet ports (RJ45)
 - Two with POE
- ✦ Wi-Fi 802.11 b/g
- ✦ Soft PABX
- ✦ Factory reset button



Dimensions:	Width	= 315 mm
	Depth	= 190 mm
	Height	= 42 mm
Weight:	1.5 kg	

FB500 BELOW DECK UNIT (BDU)

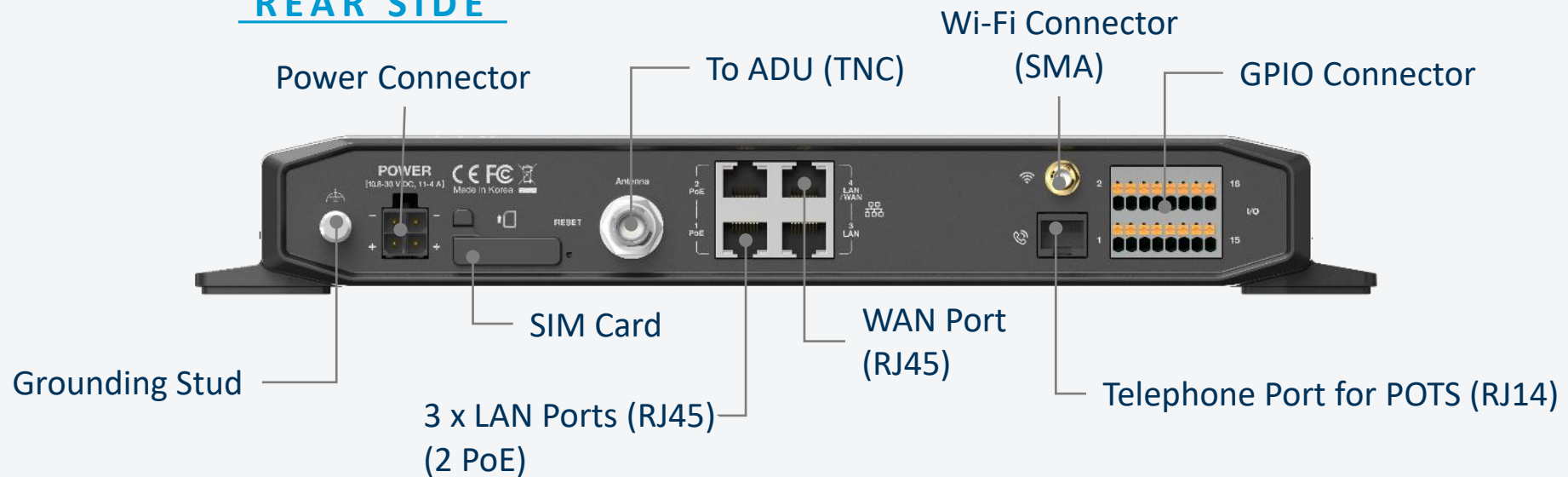
FRONT SIDE



LED Indicators

Power Switch

REAR SIDE



WHAT IS IN THE FB500 BOX?

F4-A500-S

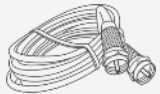
Stand-Alone Type



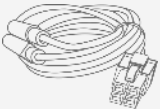
ADU



BDU



LMR200 RF Cable (30m)



DC Power Cable



Ethernet Cable

F4-A500-R

19" Rack-Mount Type



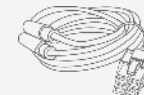
ADU



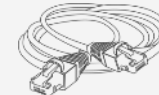
BDU



LMR200 RF Cable (30m)



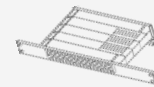
DC Power Cable



Ethernet Cable



AC/DC Adapter & Power cords



19" Rack Bracket



FB500 F4

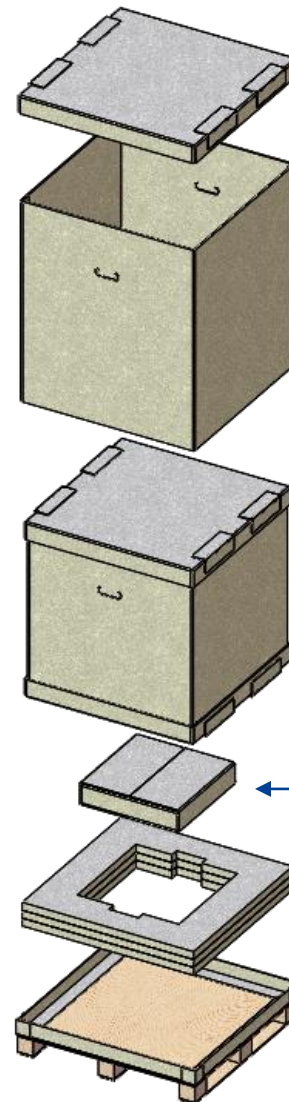
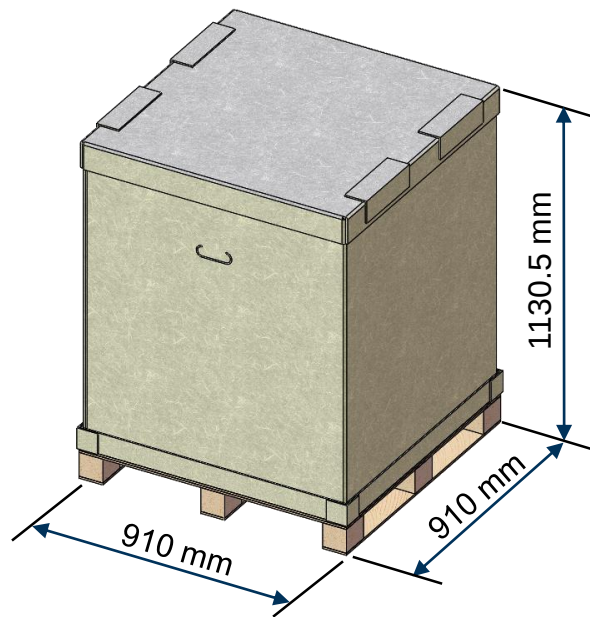
TECHNICAL SPECIFICATION

ITEM	SPECIFICATION
Tx Frequency	1626.5 MHz ~ 1675.0 MHz
Rx Frequency	1518.0 MHz ~ 1559.0 MHz
Antenna Polarization	RHCP
G/T	-7.0 dB/K
EIRP	22.0 dBW

ITEM	SPECIFICATION
Operating Temp. Range	-25°C ~ +55°C (ADU) -15°C ~ +55°C (BDU)
Operating Humidity Range	More than 95%
Water Ingress	ADU: IP56 BDU: IP31
Shock	IEC60068-2-27 (operational) IEC60721-3-6 Class 6M3 (survival)
Vibration	IEC60945 (operational) IEC60721-3-6 Class 6M3 (survival)

PACKAGING

Item	Dimensions	Weight
System Package	910 x 910 x 1130.5 mm	85 kg
ADU Package	860 x 860 x 890 mm	63.5 kg
BDU Package	505 x 505 x 115 mm	6.5 kg



ADU Package Box

- ADU
- 30m RF Cable
- Mounting Pattern Template
- ADU Bolt Kit

BDU Package Box

- BDU
- BDU DC Power Cable
- Ethernet Cable
- Wi-Fi Antenna
- Quick Guide
- BDU Bolt Kit
- 19" Rack Mount Kit (Optional)
- AC/DC Adaptor (Optional)
- AC Power Cables (US & EU)

Thank You