





The Wideye™ iFleetONE™ is the latest generation maritime communications system operating on the Inmarsat global Alphasat and I-4 satellite network. Designed to be compact for small and mid-sized fishing and leisure vessels, it delivers affordable, tailored broadband data and voice services.

While at sea, the WideyeTM iFleetONETM will be your indispensable partner for all of your business or leisure communications needs - it makes it easy to talk, text, and send and receive emails. It offers one voice line and data up to 100kbps - ideal for accessing full-colour weather images, navigational charts and routing information, as well as sending reports and browsing the web.

With Inmarsat's free 505 Emergency calling service included, Wideye™ iFleetONE™ helps to keep sailors safe. Additionally, it offers many value-added features including:

- Built-in Firewall
- Built-in Wi-Fi for wireless mobility and smartphone applications accessibility
- Standard IP Data with one user accessible Primary PDP Context
- Built-in Web Console (English and Simplified Chinese languages)
- Remote Access for diagnostics, configuration and management
- SIM Lock based on IMSI/APN
- Data Connection ON / OFF Control via external remote switch
- Volume limited access for data sessions
- Radio Silence (radio transmission on/off) Control via external remote switch
- Configurable Restricted dialling to prevent unauthorised outgoing calls
- Configurable Forced dialling with SAC configuration to enable crew calling
- Built-in SIP server supporting third party VoIP devices/ applications
- Automatic position reporting and fleet tracking capability including geo-fencing, with up to 10 polygon areas configurable

With a compact antenna and an easy to install below deck unit (BDU), the Wideye™ iFleetONE™ is small but powerful, with special features such as:

- 3-axis stabilised Antenna (including ATC-Resilience, Extended L-band and IP56 protection capability)
- Primary handset (optional): IP66 environmental protection
- NMEA 0183 continuous GPS output
- No Fuse Utilises an intelligent circuit breaker protection
- Appends GPS position to SMS

The Wideye™ iFleetONE™ includes a Primary Handset (optional) with a large colour LCD display and mobile phone type keys for text messaging. The BDU with its additional RJ11 phone port can connect either a standard corded or cordless phone.

For internet service, you can simply connect the Wideye™ iFleetONE™ to an on-board computer network using the standard RJ45 Ethernet connection. With NAT and DHCP functions, Wideye™ iFleetONE™ offers both single user (modem) and multi-user router modes. Utilising MAC address filtering and firewall features, it offers unmatched access security and uses secure IPbased technology which greatly enhances the privacy of your voice and data communications.

The internal GPS receiver and GPS Output in NMEA 0183 format of the Wideye™ iFleetONE™ can also be used to provide accurate position information to onboard systems such as plotters and depth sounders.

Charges are made for the kilobytes of data sent and received, not the time used. Flexible, seasonal air-time pricing and preferential pricing regions makes the Wideye™ iFleetONE™ affordable for smaller vessels.



Addvalue Innovation Pte Ltd. 8 Tai Seng Link, Level 5 (Wing 2), Singapore 534158. Tel: +65 6509 5700, Fax: +65 6509 5701, Website: www.addvaluetech.com

© 2016 Addvalue Innovation Pte Ltd. All rights reserved. Addvalue may have pending patent applications, trademarks or registered trademarks, copyrights, or other intellectual property rights covering subject matter in this document. The furnishing of this document does not give you any license to these intellectual properties. This material may contain unintended errors or omissions and is subject to change without notice. It is provided as is and without any express or implied warranties, including merchantability, fitness for a particular purpose and non-infringement. Addvalue shall not be liable for any special, indirect, incidental or consequential damages as a result of its use. Addvalue, the Addvalue Enabled logo, Wideye and the Wideye logo, iFleetONE and iFleetONE logo are either trademarks or registered trademarks of Addvalue Technologies Ltd and/or its affiliates in Singapore and/or other countries.

nmarsat, the Inmarsat logo, Fleet One and Fleet One logo are either trademarks or registered trademarks of Inmarsat Global Limited in the United Kingdom and/or other countries and are used by Addvalue Innovation Pte Ltd under license. United Kingdom and/or other countries, and are used by Addvalue Innovation Pte Ltd under license

wideve

liberating communications

Technical Specifications

Compliant to R&TTE, IEC60945:2002, RoHS Certification Mark : FCC, CE, IC Wi-Fi Compliant IEEE802.11 b/g/n

Frequency Band

Transmit: 1626.5 ~ 1660.5 and 1668.0 ~1675.0 MHz Receive: 1518.0 ~ 1559.0 MHz

Recommended Antenna Cable

Cable loss: 10dB at 1.6GHz and 1Ω DC loop resistance

Power Supply and Consumption

: +10.8VDC to +31.2VDC : 100W including antenna Power (max)

Environmental Conditions

Operating Temperature Storage Temperature -40 to +80°C

Operating Humidity ADU Ingress Rating 95% non-condensing at +40°C **BDU Ingress Rating**

Vibration (ADU)

Vibration (Operational) : Random spectrum 1.05g rms x 3 axes: 5 to 20 Hz; 0.02 g²/Hz 20 to 150 Hz; -3 dB/octave

Vibration (Survival)

Random spectrum 1.7g rms 2 h x 3 axes (6 h in total)
5 to 20 Hz: 0.05 g²/Hz
20 to 150 Hz: -3 dB/octave

Mechanical Shock : 20g, 11mS half-sine wave

Ship Motion

: ±30° / 4s period, max 0.7g tan. : ±15° / 3s period, max 0.6g tan. : ±10°/ 5s period, max 0.3g tan. Pitch Turning Rate

Surge Sway ±0.5g ±0.7g 42 knots Heave Headway speed

Services

Standard Voice : 4 kbps circuit switched (AMBE+2 codec) Standard IP SMS

: Up to 100 kbps : Up to 160 characters (3G standard) : supported as multipart or segmented SMS Larger SMS content

(> 160 characters)

Router Functions

: NAT disabled, with option to enable/disable DHCP (Modem Mode) Multi-User Router Mode NAT enabled, with option to enable/disable DHCF

Interfaces

Antenna Connector : 50Ω N-Type, Female

: 50Ω N-Type, Female : 50Ω SMA, Male : 1 SIM Card Slot for Fleet One SIM card Antenna Connector Wi-Fi Connector SIM Card Slot

Standard Phone Status LED

: 1 RJ11 Phone Port : 4 LEDs (Terminal, Antenna, Registered,

for Remote ON/OFF Switch,
Data connection ON/OFF Switch,
Radio Silence ON/OFF Switch and I/O Connector

External Ringer : for GPS Output (NMEA 0183)

DC Power Input Socket Primary Handset Connector Resettable Circuit Breaker Safe Mode Switch

Physical Data

: 330 x 256.7 x 66.5 mm : 319.5 (Dia) x 277 mm : 2.7 Kg / 6.0 lbs : 3.2 Kg / 7.1 lbs Dimension : BDU : ADU

Primary Handset (Optional)

: 2 in, 220 x 176 pixel TFT, 65K Color LCD : 142 x 56 x 22 mm

Dimension Weight Ingress Rating
Operating Temperature
Storage Temperature : IP66 : -20 to +55°C : -30 to +70°C