Addvalue iFleetONE

A maritime communications system for small and mid-sized fishing and leisure vessels.

The Wideye™ iFleetONE™ is one of Addvalue's 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 voice and data services.

While at sea, the Wideye™ iFleetONE™ 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 and calling service included, Wideye™ iFleetONE™ helps to keep sailors safe. Additionally, it offers rich 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 dialing - to prevent unauthorized outgoing calls
- Configurable Forced dialing - with SAC configuration - to enable crew calling
- Built-in SIP server supporting third party VoIP devices / applications
- Automatic and on-demand position reporting and fleet tracking capability including geo-fencing with up to 10 polygon areas configurable

Addvalue iFleetONE

wideye ™
liberating communications

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 IP-based 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 on board systems such as plotters and depth sounders.

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

Addvalue Vessel Monitoring System (VMS)

Addvalue VMS is a vessel tracking solution to meet the respective country's Fishery Authority's mandatory regulatory requirements to address Illegal Un-reported and Unregulated (IUU) fishing. It is now Type Approved by the US National Marine Fisheries Service (NMFS) Office of law Enforcement (OLE) for use in the Pacific.

The VMS solution offered with iFleetONE™ terminal is a 2-in-1 solution, with a built-in VMS engine which reports both automatic and on-demand location updates of the vessel to the respective authorities, is also used as a genera/ purpose broadband communication terminal for genera/ purpose data and voice communications of the crew.

TECHNICAL SPECIFICATIONS

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

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

Recommended Antenna Cable
Cable loss: I0dB at 1.6GHz and 10 DC loop resistance

Power Supply and Consumption
DC input (isolated) : +10.8VDC to +31.2VDC
Power (max)   : I00W including antenna

Environmental Conditions
Operating Temperature : -25 to +55'C
Storage Temperature   : -40 to +8 0'C
Operating Humidity ADU : 95% non-condensing at +40˚C
Ingress Rating BDU   : IP56
Ingress Rating   : IP31

Vibration (ADU)
Vibration (Operational) : Random spectrum 1.05g rms x 3 axes:
  5 to 20 Hz: 0.02 g'/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
Roll   : ±30˚ / 4s period, max 0.7g tan.
Pitch   : ±15˚ / 3s period, max 0.6g tan.
Yaw   : ±10˚/ 5s period, max 0.3g tan.
Turning Rate   : ± 36˚/s. acc. max 12'/s'
Surge   : ±0.5g
Sway   : ±0.5g
Heave   : ±0.7g
Headway speed : 42 knots
Wind   : 100 knots

Services
Standard Voice   : 4 kbps circuit switched (AMBE+2 codec) : Up to
Standard IP   100 kbps
SMS   : Up to 160 characters (3G standard)
Larger SMS content : supported as multipart or segmented SMS
  H60 character;)
Router Functions
Single User Router Mcxle   : NAT disabled, with option to
(Modem Mode)   enable/disable DHCP
Multi-User Router Mcxle   : NAT enabled, with option to
  enable/disable DHCP

Interfaces
ADU
Antenna Connector   : 500 N-Type. Female

BDU
Antenna Connector : 500 N-Type, Female
Wi-Fi Connector   : 500 SMA, Male
SIM Card Slot   : 1 SIM Card Slot for Fleet One SIM card : 1
Ethernet   RJ45 LAN Port
Standard Phone   : 1 RJ11 Phone Port
Status LED   : 4 LEDs (Terminal, Antenna, Registered,
  Data Active)
1/0 Connector   : for Remote ON/OFF Switch,
  Data connection ON/OFF Switch, Radio
  Silence ON/OFF Switch and External Ringer
Serial Port   : for GPS Output (NMEA 0183)
DC Power Input Socket
Primary Handset Connector
Resettable Circuit Breaker
Safe Mode Switch

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

Primary Handset (Optional)
Display   : 2 in, 220 x 176 pixel TFT, 65K Color
Dimension   LCD : 142 x 56 x 22 mm
Weight   : 390g / 0.8 lbs
Ingress Rating   : IP66
Operating Temperature : -20 to +55'C
Storage Temperature   : -30 to+70'C

NETWORK INNOVATIONS
Communicate. Anywhere.