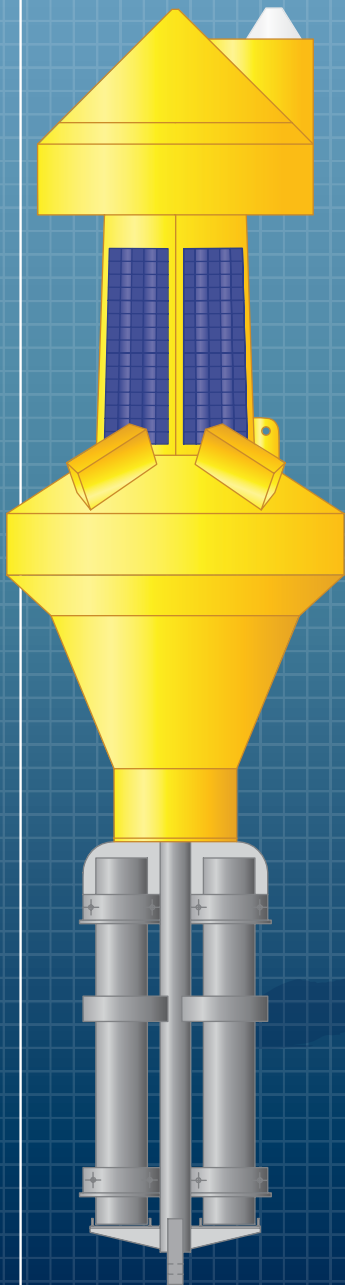
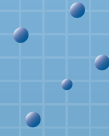


# Fastwave



## TRITON TELEMETRY BUOY

### REAL-TIME, HIGH BANDWIDTH DATA WITH GLOBAL COVERAGE

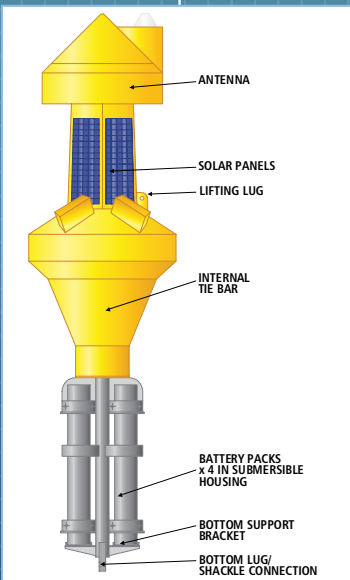
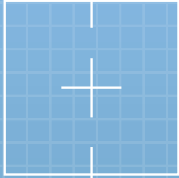
The Triton satellite telemetry buoy provides a high bandwidth gateway for ocean data acquisition from subsea wireless networks and sensor arrays, AUV's, ocean gliders and ocean observing systems.

#### FEATURES

- Configurable, multiple sensor payload
- Global, real-time data delivery
- Solar and battery power for extended deployment
- Multiple communication options – satellite, GPRS, wireless
- Easy deployment and recovery
- Proven design and construction for extended ocean deployment

#### APPLICATIONS

- Real-time oceanographic and metocean data acquisition
- Subsea acoustic network surface relay
- Marine environmental monitoring
- Marine mammal detection
- Underwater noise monitoring
- Pipeline leak detection
- Communications node for AUV's



## GENERAL SPECIFICATIONS\*

### BUOY DIMENSIONS

Height overall: 4550mm	Approx weight - leg with batteries: 236kg
Height (buoy only): 2800mm	Approx weight - detachable ballast: 100kg
Diameter: 1100mm	Material - foam filled polyethylene
Approx weight - buoy hull: 154kg	

### POWER SUPPLY

Combination of maintenance free solar panels and sealed lead acid batteries provide extended endurance and sensor payload capacity. Batteries are in external submersible housings for enhanced safety, endurance and simple replacement.

Solar panels: 3x18w	Sealed lead acid battery packs: 4x55Ah
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### COMMUNICATIONS

Global, 2-way satellite telemetry data @ 128kbps	Bluetooth (optional)
Iridium short burst data (optional)	WiFi IEEE 802.11 b/g/n
GSM/GPRS (optional)	

### POSITIONING AND SAFETY

Navigational warning light: 3-4 nautical mile LED, IALA recommended characteristic	
GPS with watch circle alerting	AtoN (optional)

### DATA CONTROLLER

From 8 x RS232	Memory: 8 MB Flash, 8 GB Micro SD, 512 MB DDR3, 4 x USB 2.0 ports
4 x USB 2.0	
10/100 ethernet	Runs Angstrom Linux
Analogue inputs x 5	Optional gyro/accelerometer/impact sensor
Inductive modem module	

### SENSORS

The Triton is designed to support multiple client and application specific sensor payloads. Typical examples are Oceanographic, Meteorological, Water quality, Passive acoustic monitoring.

*\* Subject to change depending on application requirements.*

# Fastwave

60 Coghlan Road, Subiaco  
WA 6008 AUSTRALIA  
P +61(8) 9381 5353  
E [info@fastwave.com.au](mailto:info@fastwave.com.au)

[www.fastwave.com.au](http://www.fastwave.com.au)