

# TAM-210

## Tracking & Monitoring



## Technical Specification



### Physical

Dimensions	247 mm x 178 mm x 48mm
Weight	1.5kg

### Environmental

Temperature	-35°C to +55°C
Humidity	≤95% @ +40°C, non-condensing
Ingress protection rating	IP66
Altitude	2000 metres (max. operating limit for approvals compliance)

### Local Serial Communication

Interface	Asynchronous serial RS232
Baud rate	9600 bps
Parity/data bits/stop bits	N,8,1

### Frequency Range

Transmit	1626.5 MHz to 1660.5 MHz
Receive	1525.0 MHz to 1559.0 MHz
GPS	1575.42 ± 1.0 MHz

### Elevation Angle Range

0° to 90°

### Transmitter

EIRP	0 - 9dBW
Modulation	2 level FSK, 20Hz tone spacing
Tx burst duration	2s or 8s

### Receiver

G/T	≥ -25dB/K at EL = 30°
Modulation	32-ary FSK, 20Hz tone spacing

### GPS

Channels	20
Time to first fix (typical)	
Cold start	<35s
Hot start	<1s (GPS was off for less than 2 hours)
Accuracy (SA Off)	
Position (CEP, 2D)	2.5m (Typical)
Dynamic capability	
Velocity	515m/s maximum
Acceleration	≤4g
Maximum update rate	1s

### Certification

Inmarsat Type Approved  
FCC Compliant  
Ingress: IP66  
CE

#### EMS Global Tracking

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