

TECHNICAL SPECIFICATIONS

PHYSICAL	Size	Transceiver: 155mm x 125mm x 38mm Satellite antenna: 127mm x 93mm x 23mm
	Mass	Transceiver: 244g Satellite antenna: 166g
ENVIRONMENTAL	Operating Temperature	Transceiver (In-cab): -30C to +65C Satellite & GPRS antennas: -40C to +70C
	Storage Temperature	-40C to +85C
	Humidity	95% Relative Humidity at +30C
	Vibration	5-20 Hz; 1.92 m2/s3 random noise 20-500 Hz; -3dB octave random noise
	Shock (survival)	Half sine 6ms, 300m/s2
ELECTRICAL	Input Voltage	9 VDC to 32 VDC
	Power Consumption (typ @ 12VDC)	Receive: 2.0W (typical) GPRS Inactive: 1.5W GPS/GPRS Inactive: 0.9W Transmit: 10W (D+ & IsatM2M) Transmit: 8W (GPRS) Sleep: 300µA
	Input / Output	5 Analogue & Digital input - 8 Digital output
SATELLITE	Network Coverage	Global to +/- 75 degrees latitude with 5 overlapping Ocean Regions
	Frequency	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
	EIRP	9 dBW max
	Elevation Angle	0 to +90 degrees
	GPS	16 channels; 1575.42 MHz
	Accuracy	2.5 m CEP; 5 m SEP
GSM/GPRS	Frequency	850/1900/900/1800 MHz
	GPRS data	Class 12 multislot; Coding scheme 1 to 4 Class B mobile station; PBCCH support Class 4 (2W) for EGSM 850 and 900 Class 1 (1W) for GSM 1800 and 1900
	Output Power	Class 4 (2W) for EGSM 850 and 900 Class 1 (1W) for GSM 1800 and 1900
CERTIFICATIONS AND COMPLIANCE	Inmarsat Type Approval R&TTE (CE Marking); PTCRB; FCC; RoHS Transceiver (In-cab): IP40/NEMA1 Satellite antenna: IP67/NEMA4X	

DUO-900



DUO-900

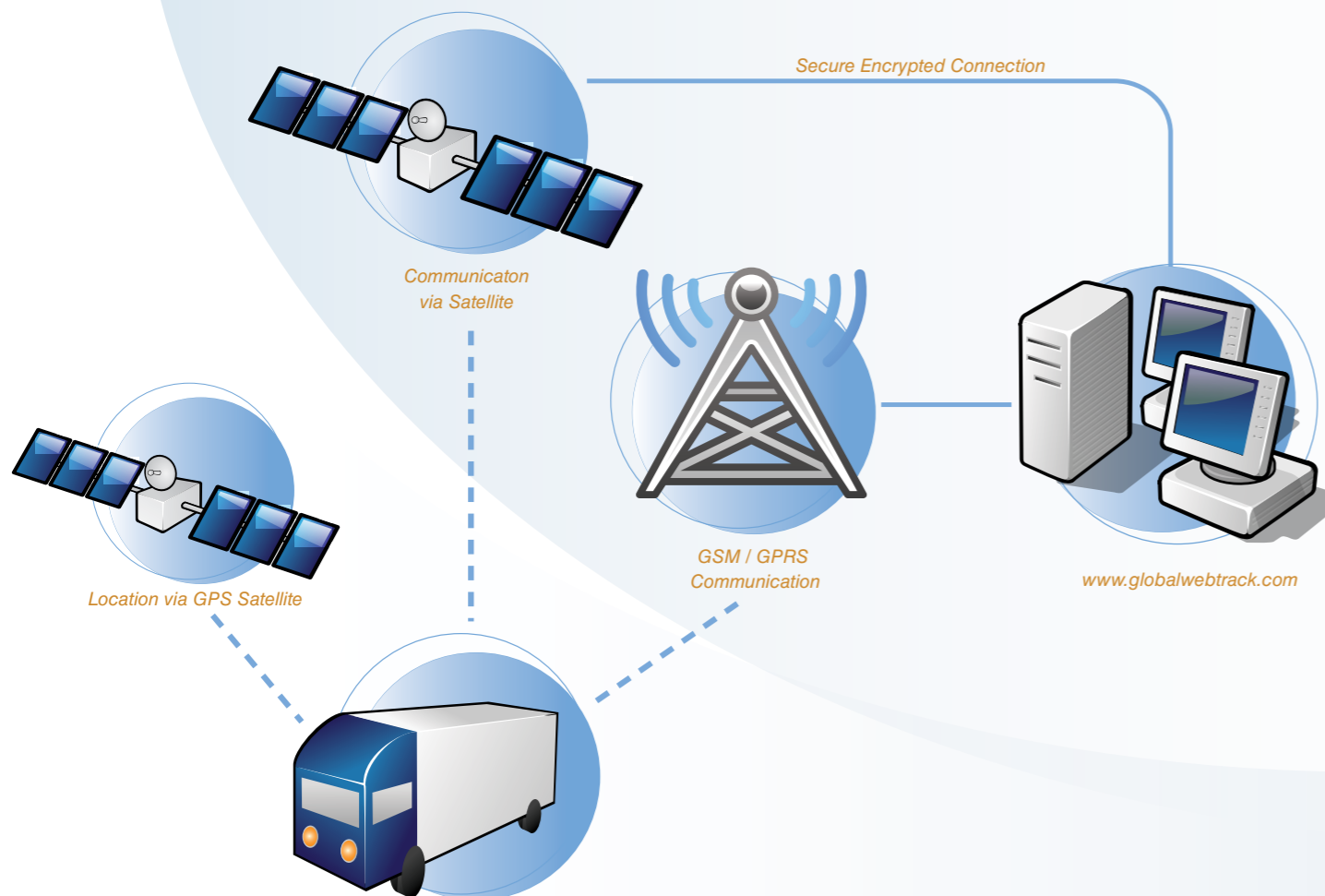
THE DUO-900 OFFERS PEACE OF MIND TRACKING AND ASSET MANAGEMENT THROUGH A DUAL COVERAGE AND COMMUNICATION SYSTEM.

THE DUO-900 TRACKING DEVICE PROVIDES THE BEST OF BOTH WORLDS BY USING THE LOCAL GSM NETWORK WHILE IN A GSM/GPRS COVERAGE AREA AND AUTOMATICALLY SWITCHING TO GLOBAL SATELLITE SERVICES WHEN OUT OF NETWORK REACH. THIS PROVIDES THE MOST EFFECTIVE AND EFFICIENT MEANS OF COMMUNICATION AND CONTROL OF ASSETS AT ALL TIMES, NO MATTER WHERE THEY ARE SITUATED.

A compact device with a quad-band GPRS and satellite transceiver, 16 channel GPS and input/output feeds, the DUO-900 reports time, distance, geo-fencing (identifying specific areas) and any other criteria to meet your specific reporting requirements.

Irrespective of where your assets are at any given time, the DUO-900 keeps you in touch through the GlobalTracks network service. While in cellular range your asset can send frequent, cost-effective updates using GPRS. Outside of cellular range, the Duo-900 automatically switches to global satellite mode, sending critical updates while maintaining a live reporting interval. The high frequency messages are stored and sent when back in cellular coverage. The different reporting intervals, whether the unit is operating on GPRS or satellite, can be set independently via WebTrack to suit your budget and asset management requirements.

Its low profile design ensures that this compact and inconspicuous device is perfect for covert installations. Built-in alert capabilities mean that your assets are always secure and operating more efficiently at lower risk, which in turn improves your bottom line.



KEY BENEFITS & FEATURS

- Uses **GSM/GPRS** and **global satellite communication** services, ensuring worldwide coverage without the high cost of roaming.
- Allows the user to create 128 circular, configurable **geo-fences** for better control and management of assets - pre-installation or via WebTrack.
- Special sensors register exception-based reports, configurable for both GPRS and satellite services, including:
 - **Over speeding**
 - **Odometer reading**
 - **Trip Start / Stop**
 - **Geo-fence violations**
- **Compact & inconspicuous**
- Additional peripherals available:
 - **Message Terminal**
 - **Panic Button**
 - **Remote Panic Button**
 - **Immobilizer**
- **15 months warranty**, with a further 36 month **extended warranty** available

APPLICATIONS

The Duo-900 is used in a variety of applications, including inter alia:

Transport

- International transport applications
- High value applications
- Fleet management applications

Security

- HSE (mining & oil) applications
- Semi-military & security applications
- VIP safety applications

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