



## Sycada m/Trace Guardian Boxer Telematics Terminal

### GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50 channel GPS
Operating Voltage	4.2 volt internal battery pack

### GPS

Location Technology	50 channel GPS (with SBAS)
Location Accuracy	SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	2.0 meter CEP (with SBAS)
Acquisition Sensitivity	-162 dBm
AGPS capable	-147 dBm

### BATTERY PACK

Field Replaceable AA Batteries	
Battery Options	3 or 6 1.5V AA Alkaline Cells

### CELLULAR

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
Operating Bands (MHz)	
GSM/GPRS	850/900/1800/1900
CDMA/1xRTT	850/1800
HSPA/UMTS	800(VI)/850(V)/900(VIII)/1700(IV)/1900(II)/2100(I)
Transmitter Power	
GSM/GPRS	850/900 1800/1900
CDMA/1xRTT	850 1800
HSPA/UMTS	all bands
HSPA data rates	5.6 Mbps upload / 7.2 Mbps download
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6

### CERTIFICATIONS

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

### PHYSICAL

Dimensions	2.9 x 4.9 x 1.4"/74 x 124 x 36mm
Weight	11 oz/ 325 g

### ELECTRICAL

Operating Voltage	4.2V internal battery Typical 200uA @ 4.2V (deep sleep)
Power Consumption	Typical 26A @ 4.2V (SMS+UPD connection, GPS off) Typical 140 mA @ 4.2V (continuous transmit)

### ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE
EMC/EMI	J1455 SAE J1113; FCC-Part 15B; Industry Canada

RoHS Compliant

### CONNECTORS, SIM ACCESS

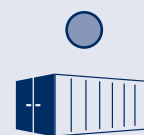
SIM Access	Internal
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### KEY FEATURES

- Battery life of 1 or 2 years at 1 message/day
- IP66 sealed and rugged enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal cellular and GPS antennas
- Super Sensitive GPS tracking
- Built-in 3-axis accelerometer for motion sense, tilt, and impact sensing
- Ultra low power sleep mode
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 built-in geo-fences

### DEVELOPMENT SUPPORT OPTIONS

Custom hardware and software development available



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