



# Sycada m/Trace Lite V Telematics Terminal

## GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT
Data Modes	UDP packet data and SMS
Location Technology	50 channel GPS
Operating Voltage	12/24 volt vehicle systems

## GPS

Location Technology	GPS; GLONASS, and QZSS capable
Enhancement Technology	SBAS: WASS, EGNOS, MSAS
Receiver Type	56 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m
Location Updat Rate	up to 10 Hz
Anti-jamming	
AGPS Capable / Location assistance capable	

## CELLULAR

Data Support	SMS/ UDP Packet Data	
Operating Bands (MHz band)		
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	32.5 dBm
	1800/1900	29.3 dBm
	850	24 dBm
CDMA/1xRTT	1800	23 dBm
HSPA/UMTS	all bands	23 dBm
HSPA data rates	5.6 Mbps upload / 7.2 Mbps download	
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6	

## COMPREHENSIVE I/O

Digital Inputs	4 fixed bias/programmable bias
Digital Outputs	4 open collector (150mA)
Analog Inputs	1 External ADC input 1 Internal VCC monitor
Status LED's	GPS and Cellular

## CERTIFICATIONS

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

## DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

## ENVIRONMENTAL

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 801G, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

## ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	3.8 mA @ 12V (deep sleep) 20mA @ 12V (radio-active sleep) 25mA @ 12V (SMS+UDP connection, GPS off) 115mA @ 12V (continuous transmit)
Battery Back Up	Lithium-Ion 1000mAh (See technical specifications online for operational changes)

## PHYSICAL

Dimensions	2.125 x 3.5 x 0.93", (54 x 89 x 24mm)
Weight	2,9 oz, (82 g)

## CONNECTORS, SIM ACCESS

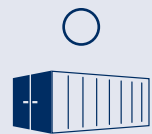
SIM Access	Internal
External GPS	optional SMA (with tamper monitoring, 3V)
External Cellular	optional SMC
Connection Type	20 pin Molex-type fused power harness

## MOUNTING

Standard tie-wrap or adhesive; Screw mount bracket

## KEY FEATURES

- GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
- Internal or external cellular and GPS antennas
- Super sensitive GPS (-168dBm)
- Internal back-up 1000mAh battery
- Ultra-low power sleep mode (<2mA)
- 3 axis accelerometer for motion sense and tilt
- 4 inputs and 4 outputs
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 Built-in geo-fences
- Optional starter interrupt harness
- Optional ODBII easy install harness
- Optional external and internal GPS and cellular antennas
- Optional external backup battery
- Optional serial cable



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