

# Sycada m!Trace

## Compact OBd II Telematics Terminal



### GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Messages	20,000 buffered messages

### GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity AGPS capable	-148 dBm

### 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	29.5 dBm
CDMA/1xRTT	850	24 dBm
	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	

### INTERFACES

OBdII Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP2000, ISO-15765, GM SWCAN and other OEM interfaces
LEDs	Communication, GPS and OBd Status
Outputs	None
Bluetooth	Bluetooth 4.0 Dual Mode (optional fit)

### CERTIFICATIONS

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

### ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	CE, GCF, eMark (all pending) RoHS Compliant

### ELECTRICAL

Operating Voltage	9-16 VDC Vehicle Systems
Internal Battery	200mAh
Sleep Mode	Ultra low power sleep <3mA

### PHYSICAL

Dimensions	43 x 64 x 25 mm
Weight	<52g
Enclosure	Rugged textured plastic enclosure
Communications	OBd, Cellular and GPS
Accelerometer	3 axis 16g, sampling at 400Hz for driver behavior and crash detection

### CONNECTORS

Built-in OBd-II/EOBD-II interface via J1962 compliant connector

### SIM ACCESS

Internal  
SIM fitted during manufacturing

### MOUNTING

Via built-in OBd-II connector  
Self-adhesive mounting with OBd-II extender cable

### OPTIONAL FEATURES/FUNCTIONS

OBd-II Connector Cables  
Splitter and Extensions  
Serial Cable

### OBd DATA EXTRACTION

Detection	Automatic detection of vehicle interface services
Extraction	Transmission of standard EOBD codes, plus manufacturer specific codes which are made available by the embedded OBd firmware stack
Scripts	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

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