imt.X1

arvento Mobile Systems

This side up

GNSS
GSM

imt.X1

- Small and compact design
- GNSS receiver with high position sensitivity
- Battery friendly sleep mode
- Optional Bluetooth connection
- E-call compatible
- Next generation Arm® Cortex®-M4 processor, two times faster
- Next generation 2G, 4G GSM option
- 16MB of storage space able to store 40,000+ position packages and define 1000 areas with 29 points
- 6-axis Gyro sensor able to sense 3-dimensional movement; accident analysis, emergency acceleration panic brake, yaw, drift
- Optional back-up battery with up to 10 hours of operation
- Sensor which informs if the case of the device is tampered
- Dual CANBus connection
- Expansion ports; fuel sensor, temperature, driver recognition unit, tachograph

TECHNICAL SPECIFICATIONS

Operating Temperature	-20ºC – +75ºC	GNSS Receiver	SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN	**Sensors**	6-Axis Accelerometer
Dimension	74mm x 54mm x 18,5mm		GNSS Support	**Tact Switch**	Tamper
Weight	45gr		AGPS Support	**LED Indicators**	Two LED with two colors for GSM & GNSS
Data Storage	16 MB		**Accuracy:** GPS 2,5 m, GPS+SBAS 2.0 m	**Connections**	• CAN
Battery Type (optionally)	Li-Polymer 900mAh		**Receiver Type**		• 2x RS232
			Channels : 72		• e-Call
Power Supply	9 – 32 VDC		Frequency : L1		• Relay Output (Open Drain)
	3 mA (sleep mode)		Signals : GPS C/A Code , GLONASS L10F		• Switch Input (Open Drain)
	40 mA (power save mode)		**Configuration**		• One Wire Input/Output
	200 mA (active tracking mode)		Navigation Update: Up to 10 Hz		
GSM Modem	2 Band EGSM 900/1800 MHz		**Time-To-First-Fix**		
	Transmitter Output Power :		Cold Start : 26 sn	**Firmware Over The Air (FOTA)**	Present
	Class 4 (33 dBm) @ 900 MHz		Reacquisition:1 sn		
	Class 1 (30 dBm) @ 1800 MHz		Aided Start : 1 sn	**Certificates**	CE, e-Mark
	Sensitivity		**Sensitivity**		
	-109 dBm @ 900 MHz		Tracking and Navigation: -167 dBm		
	-109 dBm @ 1800 MHz		Reacquisition : -157 dBm		
	GPRS:		Cold Start : -148 dBm		
	GPRS multi-slot class 10		**Accuracy:**		
	Mobile Station Class B		Horizontal Position: < 2.5 m CEP		
	Coding scheme CS1-CS4		< 2.0 m CEP		
	PBCCH Support		**Limits**		
	SMS Support		Acceleration: 4 g		
	Superior echo cancellation & noise reduction		Altitude : 50000 m		
	Micro SIM Card Input		Speed: 500 m/s		

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