

MASTER TRACKER



LOW POWER INDUSTRIAL TRACKER

The Master Tracker combines high performance GPS receiver and a Semtech Lora™ transceiver making this product ideal for low-power industrial indoor and outdoor tracking applications.

A moving detector associated with proprietary low-power GPS technology extends significantly battery life time.

Applications: asset and vehicle tracking.

► TECHNICAL INFORMATION

FEATURES			
Motion Tracking	Make a GPS fix at a given cycle when motion is detected		
Fix on demand	Get the tracker position only when needed (very low power operating mode)		
Fast tracking	Make periodic fix		
GPS	Precise outdoor position		
Activity rate	Monitor operating period with embedded sensors.		
Temperature Monitoring			
Embedded Antennas			
LoRa™ Class A radio			
Waterproof Enclosure	IP65		
ESTIMATED LIFETIME			
	USE CASE	BATTERY LIFE (APPROX.)	
	Fix on demand mode	Several years	
	Periodic position (6 positions per day)	> 5 years	
DATA COMMUNICATION SUPPORT			
LoRa™ Modem	Semtech transceiver SX1272		
Protocol	LoRaWAN, Class A		
Frequencies bands	EU 863-870 MHz US 902-928 India 865-867 MHz		
Configuration supported	OTA and ABP		
RF power	14 dBm (EU) 18.5 dBm with PA-Boost		
Min sensitivity of receiver	-130 dBm		
Antenna	Integrated		
POSITION ACCURACY			
GPS	Position Accuracy (50%-90%): 8 to 15 meters		
	Time To First Fix (open area)	Cold start: Hot start:	60-120 seconds 15 seconds
	Acquisition sensitivity	-143 dBm	
POWER MANAGEMENT			
Non-rechargeable Battery	3.6 V	19 Ah	
Battery type	D		
Power consumption	Standby	0.01 mA	
	GPS tracking in cold start (per fix)	~ 0.96 mA/h	
PHYSICAL CONFIGURATION			
Size	145 mm x 76 mm x 42 mm (L x l x h)		
Weight	240 g		
Waterproof capability	IP65		
Operating temperatures	-15 °C ; 70 °C		
Storage temperature	10 °C ; 30 °C		
Time storage max	6 months		
WARNING ABOUT BATTERY			
	Fire, explosion and severe burn hazard Do not recharge, crush, disassemble, heat above 100°C, incinerate, or expose contents to water There is a risk of explosion if the battery is replaced with a wrong one In accordance with the regulation, used battery must be put in special collection points.		

► CORPORATE OFFICES

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