

AT2-GR-4G
DATA SHEET of ACTIVE TRACK 2



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Product name		ACTIVE TRACK 2		
Model		AT2-GR-4G (built-in LTE/UMTS/GSM, RFID and GPS modules)		
Power supply (battery charging)		5VDC/1A (power socket Micro USB)		
Battery	Main battery type	Li-Polymer, 3.7V-2400 mAh		
	Main battery working time	up to 44 hours (test and GPS position signal to OSM every 270sec)		
	Charging time	4,5 hours (max)		
	Backup battery	Li-Polymer, 3.7V-60mAh		
GSM Module	Type	u-blox LARA-R6001		
	Manufacturer	u-blox AG Zürcherstrasse 68 8800 Thalwil Switzerland		
	Frequencies range	LTE FDD	Band 12 (700MHz)	
			Band 28 (700 MHz)	
			Band 13 (700 MHz)	
			Band 20 (800 MHz)	
			Band 18 (850 MHz)	
			Band 19 (850 MHz)	
			Band 26 (850 MHz)	
			Band 5 (850 MHz)	
			Band 8 (900 MHz)	
			Band 4 (1700 MHz)	
			Band 3 (1800 MHz)	
			Band 2 (1900 MHz)	
			Band 1 (2100 MHz)	
			Band 7 (2600 MHz)	
LTE TDD		Band 39 (1900 MHz)		
	Band 40 (2300 MHz)			
	Band 41 (2600 MHz)			
	Band 38 (2600 MHz)			
WCDMA	Band 5 (850 MHz)			
	Band 8 (900 MHz)			
	Band 2 (1900 MHz)			
	Band 1 (2100 MHz)			
GSM	GSM 850			
	E-GSM 900			
	DCS 1800			
	PCS 190			
Power Class	LTE	Class 3 (23 dBm)		
	UMTS/HSDPA/HSUPA	Class 3 (24 dBm)		
	GSM/GPRS (GMSK)	Class 4 (33 dBm)	for 850/900 band	
		Class 1 (30 dBm)	for 1800/1900 band	
	EDGE (8-PSK)	Class E2 (27 dBm)	for 850/900 band	
Class E2 (26 dBm)		for 1800/1900 band		
Data rate	LTE	Category 1	up to 10.3 Mbit/s DL up to 5.2 Mbit/s UL	
	HSDPA	Category 8	up to 7.2 Mbit/s DL	
	HSUPA	Category 6	up to 5.76 Mbit/s UL	
	GPRS	Multi-slot class 33	up to 107 kbit/s DL up to 85.6 kbit/s UL	
	EDGE	Multi-slot class 33	up to 296 kbit/s DL up to 236.8 kbit/s UL	

sGPS Module	Type	u-blox MAX-M8C
	Channels	72
	Position accuracy	< 2,5m
	Time-To-First-Fix hot start acquisition time	< 1s average
	Time-To-First-Fix cold start acquisition time	< 26s average
RFID Module	Type	Proximity RFID
	RFID reader frequency	125 kHz
	RFID read-out distance	3-4 cm (depends on transponder type)
	Emission time	15 sec. after pressing "Read-out" button
	Modulation	ASK
Transmission channels	Data transmission	LTE/HSDPA/HSUPA/EDGE/GPRS, SMS to OSM.Server
	Voice call	Incoming voice connection is received automatically and can be limited to phone number list. "Call to me" button can send message to OSM.Server or makes a voice call to defined phone number.
Transmission security		AES encryption
Motion sensor		3-axis motion sensor (accelerometer)
Alarm events buffer size		1000
Quantity of system events stored in history		8000
Configuration	Local	From PC through RS232 link (LX cable and AGP3 programmer required)
	Remote	LTE/HSDPA/HSUPA/EDGE/GPRS, SMS or CSD
Ambient operating temperature		-20°C ÷ +55°C (0°C ÷ +40°C during charging)
Ambient operating humidity outside the charger		5% to 100%
Ambient operating humidity inside the charger		5% to 93% without condensing
Casing protection rating		Waterproof and shock resistant housing, IP67
Weight		175g (reader); 30g (charger)
Dimension (HxWxT)		121 x 60 x 30 (mm)