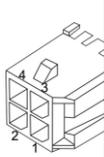


MPIP-620 GPS Vehicle Technical Specifications

Picture			Standard	Components	number		
				MPIP-620	1		
				Power cable	1		
			Optional	Optional accessory	number		
				Power/fuel cut-off relay	1		
				USB setting cable	1		
Features	Physical	Dimension: 75mm×48mm×20mm					
		Weight: 80g					
		Shell Material: Plastic shell					
	Product	GPS receiver with high sensitivity					
		GSM communication module with high stable					
		Subminiature plastic shell, easy installation and anti-knock, anti high&low temperature					
		Remotely upgrade and maintenance					
Function	Tracking position、 vehicle statement check, abnormal alarm, power/fuel cut-off						
	SMS parameters setting、 SMS control and so on						
Function Description	Tracking position	Roll call	It will send back the longitude and latitude information when the device send the command				
		Timing tracking	It will send back the longitude and latitude information with the interval as setting (Note: not support with SMS mode)				
		Fixed uploading	The device will upload the longitude and latitude with the fixed interval as setting(Note: not support with SMS mode)				
	Statement check	On/Off	The package uploaded with the information of the status ACC ON/OFF (ensure the ACC cable connect first)				
	Alarm	Main power cut-off alarm	The device will upload the power cut-off alarm with the built-in battery when the power cut-off				

		Over-speed alarm	The device will upload the over-speed alarm when the speed over the setting value (Note: the default value is 120Km/h)
		Electronic fence	The device will upload the alarm when the vehicle out of the setting area
		Others	Low voltage alarm; Towing alarm
		Alarm mechanism	<p>1. Device will upload the alarm to platform, and the alarm statement will be effective until the device get the confirmation from the platform</p> <p>The alarm statement whether effective no relation with the ACC on or off in the condition of the alarm confirmed. Besides, for the alarms(GPS trouble alarm/main power cable cut alarm/Low voltage alarm),whether the alarm statement effective depend on the real-time statement of the vehicle after receive the confirmation from platform</p> <p>The alarm statement will always be 1(means alarm) until the alarm disappear and then recover to normal</p> <p>2. The device will report the alarm to platform three times at most if the device don't get the confirmation from platform and the interval is 60secs(the over-speed alarm report only one time at most)</p> <p>3. The alarm will not happen again until the alarm statement recover to normal</p> <p>4. The alarm statement only show the current status of the alarm</p>
	Others	SMS/GPRS intelligent double module	Device can work with GPRS/SMS double mode or SMS mode
		Store and resend in blind area	Data will be stored in blind area and resend to the center when GSM signal recover
		Indicator	Three LED indicator on the cover including power、GSM and GPS
	Maintenance remotely	Upgrade remotely	Upgrade the vehicle's firmware from the platform
		Setting GPRS parameters remotely	Read the communication parameters and working parameters from the platform remotely
		Setting parameters from SMS remotely	Any SIM card can set the device and read the parameters from SMS when without authorization number. While only can set the parameters with the authorization number when set the authorization number, the others

			only can read the parameters as below: authorization number/electronic fence/GPS tracker parameters\		
	Maintenance locally	Upgrade with gorge	Upgrade with CastelecomPCTool locally		
		Setting parameters with gorge	Setting and read the parameters with CastelecomPCTool		
	Vehicle control	GPRS power/fuel cut-off/supply remotely	<p>User can send command to have the vehicle“power/fuel cut-off”when the vehicle stolen, and also can have the vehicle recover to normal with command“power/fuel supply”</p> <p>The function work only when the ACC off</p> <p>mechanism: the device will store the “power/fuel cut-off”without execution until from the ACC ON to ACC OFF after receive the command. Recover from power/fuel cut-off”works anytime</p> <p>(All the basic is connection with the “power/fuel cut-off relay”)</p>		
		GPRS restore remotely	The device will restart after send the reset command remotely from the platform		
		SMS power/fuel cut-off/supply remotely	<p>Power and fuel cut-off/supply remotely from the authorization number</p> <p>realization mechanism:</p> <p>The power and fuel cut-off when ACC off,</p> <p>The power and fuel supply when receive the command in any condition</p>		
		SMS restore remotely	The device will restore all the parameters to default factory setting and clear the data in the flash except the device ID		
SMS alarm	Device will send the alarms (Low voltage alarm、main power cable cut alarm、electronic fence alarm、towing alarm) to the authorization number from SMS until successful.The authorization number support three at most				
	Port model	Pin	Function definition		
	 <p>2x 2-Pin connect or</p>	1	AWG22, yellow, ACC		
		2	AWG22, black, power ground (-)		
		3	AWG22, red, power (+12/+24V)		
		4	AWG22, purple, power/fuel cut-off		

	Power port			
Electrical surroundings parameters	Working voltage	9-36 VDC		
	Standby battery	3.7V@500mAH		
	Max operation current	<200mA@13.8V		
	Data TX/RX current	<120 mA@13.8V		
	Standby current	<60mA@13,8 V		
	Sleep current	<20mA@ 13.8V		
	Operation temperature	-30°C ~+70°C		
	Storage temperature	-40°C~+85°C		
	Relative humidity	5% ~ 95% (no frosting)		
	IP protective leverage	IP54		
	Positional accuracy:	<15m		
	Frequency range:	GSM: 900MHz/1800MHz/850MHz/1900MHz	GPS: 1575.42MHz	
	GPS receiver	Coldstart	< 45secs	
Warm start		<2secs		
Receiver model		L1 frequency, C/A Code 20 channel		
Receive sensitivity		< -150dB、typical value		
Capture sensitivity		< -144dB、typical value		
Position sensitivity		< 15 meters		
Speed sensitivity		< 0.1 m/s		
GSM receiver	GSM model	SIM800H		
	frequency	900MHz/1800MHz/850MHz/1900MHz		
	Max. TX power	Class4(2W)@850/900MHz, Class1(1W)@1800/1900MHz		
	Receive sensitivity	-107dBm (typ.)@850/900MHz, -106dBm (typ.)@1800/1900MHz		

	GSM network communication protocol	TCP/IP
	GSM antenna	Built-in
Indicator	LED Indicator	
	Power with red	On: working
		Off: no power
	GSM with blue	Off: sleepy or no power;
		Blink: login network success
		On: login network unsuccess
	GPS with green	Off: sleepy or no power
		Blink: position success
		On: searching signal