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Product Specifications	S20	S30	A100	A300	A500	A600	A700	Q1
Type	Motorcycle/ Vehicle tracker	Motorcycle/ Vehicle tracker	Vehicle tracker	Vehicle tracker	Vehicle tracker	Vehicle tracker	Vehicle tracker	Personal tracker
Dimension(mm)	80*53*21	80*53*21	90*60*27	90*60*27	90*60*27	90*60*27	90*60*27	52*40*17
Weight	157g(with cable)	157g(with cable)	140g	145g	145g	160g	160g	38g
Waterproof	IP66	IP66	-	-	-	-	-	IP65
AGPS	√	√	√	√	√	√	√	√
Sleep Mode	√	√	√	√	√	√	√	√
Power Input	DC 8~92V/1.5	DC 8~92V/1.5	DC 11~36V/1.5A	DC 11~36V/1.5A	DC 11~36V/1.5A	DC 11~36V/2A	DC 11~36V/2A	DC 5V/1A
Internal Battery	300mAh/3.7V	300mAh/3.7V	600mAh/3.7V	600mAh/3.7V	600mAh/3.7V	600mAh/3.7V	600mAh/3.7V	550mAh/3.7V
Power Consumption	Standby:30-35mA	Standby:30-35mA	Standby:30-35mA	Standby:30-35mA	Standby:30-65mA	Standby:30-65mA	Standby:30-65mA	Standby:4-5mA
	Working:60-120mA	Working:60-120mA	Working:60-120mA	Working:60-120mA	Working:60-120mA	Working:60-120mA	Working:60-120mA	Depend on interval
Internal Battery Working Hours	2.5h	2.5h	6h	6h	6h	6h	6h	11h (30s interval) 13h (1 min) 58h (5 mins) 82h (10 mins) 96h (60 mins) 148h (No interval)
High Voltage Protection	Y, 92V	Y, 92V	Y, 36V	Y, 36V	Y, 36V	Y, 36V	Y, 36V	-
Auto Battery Protection	Y, Custom	Y, Custom	Y, 11V	Y, 11V	Y, 11V	Y, 11V	Y, 11V	-
Operating Condition	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃	Temperature: -20℃~70℃
	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%	Humidity: 5%~95%
LED Indicator	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	3 LEDs: GPS/GSM/Pwr	2 LEDs: GPS/GSM

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Memory	8M/20400 GPRS Data,320 SMS data	8M/20400 GPRS Data,320 SMS data	8M/16000 GPRS Data,4000 SMS data	8M/20400 GPRS Data,700 SMS data	8M/20400 GPRS Data,300 SMS data	8M/20400 GPRS Data,300 SMS data	8M/20400 GPRS Data,300 SMS data	8M/16000 GPRS Data,4000 SMS data
Motion Sensor	3D Accelerometer	3D Accelerometer	3D Accelerometer	3D Accelerometer	3D Accelerometer	3D Accelerometer	3D Accelerometer	3D Accelerometer
Digital Input	2 (1 custom, 1 positive)	2 (1 custom, 1 positive)	3 (1 negative, 1 positive, 1 custom)	4(1 negative, 1 positive, 2 custom)	4(1 negative, 1 positive, 2 custom)	4(1 negative, 1 positive, 2 custom)	4(1 negative, 1 positive, 2 custom)	1 SOS button
Analog Input	1ch*12bits, 0~12V	1ch*12bits, 0~12V	1ch*12bits, 0~12V	2ch*12bits, AD1: 0~6V AD2: 0~12V	2ch*12bits, AD1: 0~6V AD2: 0~12V	2ch*12bits, AD1: 0~6V AD2: 0~12V	2ch*12bits, AD1: 0~6V AD2: 0~12V	-
Output	1	1	2	2	2	2	2	-
RS232	-	-	-	1 RS232	1 RS232	4 RS232	4 RS232	-
1-Wire protocol port	-	1	-	1	1	1	1	-
Pulse detection port	-	-	-	1 (default for speed detection)	1 (default for speed detection)	1 (default for speed detection)	1 (default for speed detection)	-
GPS Module	U-blox 7Q	U-blox 7Q	U-blox 7Q	U-blox 7Q	U-blox 7Q	U-blox 7Q	U-blox 7Q	U-blox 7Q
Restart Speed	Cold start 35s	Cold start 35s	Cold start 35s	Cold start 35s	Cold start 35s	Cold start 35s	Cold start 35s	Cold start 70s
	Hot start 1s	Hot start 1s	Hot start 1s	Hot start 1s	Hot start 1s	Hot start 1s	Hot start 1s	Hot start 5s
GSM Module	SIMCOM SIM800C	SIMCOM SIM800C	SIMCOM SIM800	SIMCOM SIM800C	Quectel UC15	SIMCOM SIM800C	Quectel UC15	SIMCOM SIM800C
GSM Band	Quad Band	Quad Band	Quad Band	Quad Band	GSM/UMTS	Quad Band	GSM/UMTS	Quad Band
3G Module	-	-	-	-	√	-	√	-
Real Time Tracking	√	√	√	√	√	√	√	√
Distance Tracking	√	√	√	√	√	√	√	√
Direction Change Tracking	√	√	√	√	√	√	√	-
Low Battery Alarm	√	√	√	√	√	√	√	√
External Battery Low Alarm	√	√	√	√	√	√	√	-
External Power Cut Alarm	√	√	√	√	√	√	√	-
SOS Alarm	√	√	√	√	√	√	√	√
Harsh Braking Alarm	√	√	√	√	√	√	√	-
Harsh Accelerate Alarm	√	√	√	√	√	√	√	-
Speeding Alarm	√	√	√	√	√	√	√	-
Fatigue Driving Alarm	√	√	√	√	√	√	√	-
Parking Overtime Alarm	√	√	√	√	√	√	√	-
Idling Alarm	√	√	√	√	√	√	√	-
GPS Antenna Cut Alarm	-	-	√	√	√	√	√	-
GSM Jamming Detection	-	-	√	√	√	√	√	-

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GPS Jamming Detection	-	-	√	√	√	√	√	-
GEO-Fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence	Circle fence and Polygon fence
Two-way Conversation (Optional)	-	-	√	√	√	√	√	-
Voice Monitoring (Optional)	√	-	√	√	√	√	√	√
Roaming Uploading	√	√	√	√	√	√	√	√
Engine Cut	√	√	√	√	√	√	√	-
OTA	√	√	√	√	√	√	√	√
Analog Fuel Sensor (Optional)	√	√	√	√	√	√	√	-
Fuel Theft Alarm (AS10 fuel sensor only)	√	√	√	√	√	√	√	-
Fuel Filling Alarm (AS10 fuel sensor only)	√	√	√	√	√	√	√	-
Low Fuel Level Alarm (AS10 fuel sensor only)	√	√	√	√	√	√	√	-
High Fuel Level Alarm(AS10 fuel sensor only)	√	√	√	√	√	√	√	-
Fuel Consumption Statistics(AS10 only)	√	√	√	√	√	√	√	-
Ultrasonic Fuel Sensor (Optional)	-	-	-	√	√	√	√	-
Original fuel sensor	-	√	-	√	√	√	√	-
Camera for taking picture(Optional)	-	-	-	√	√	√	√	-
RFID Reader(Optional)	-	-	-	√	√	√	√	-
iButton(Optional)	-	-	-	√	√	√	√	-
Fingerprint Scanner (Optional)	-	-	-	√	√	√	√	-

Digital Temperature Sensor(Optional)	-	√	-	√	√	√	√	-
High/Low Temperature Alarm (Optional)	-	√	-	√	√	√	√	-