

San Jose Technology, Inc.

Professional **GPS** & **Wireless** Solutions Provider



Company Profile

Professional GPS & Wireless Solutions Provider

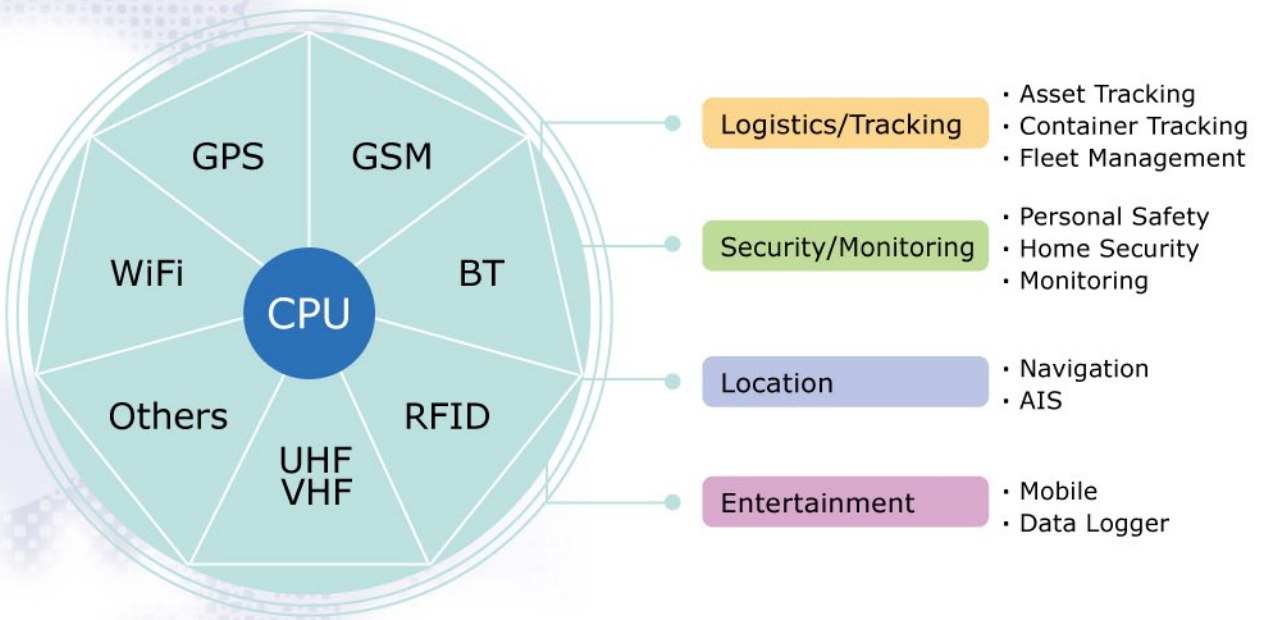


San Jose Technology, Inc.

- Product line : GPS Application products design, customization & manufacturing.
Wireless multi-band antenna design, customization & manufacturing.
- Company history : Since 1995, specialize in designing & manufacturing of GPS & Wireless solutions.
- Quality certificate : ISO9001:2000, RoHS, FCC, CE
- Credit reference : Duns & Bratts No. 65-718-8348



Core Competence-RF System Integration

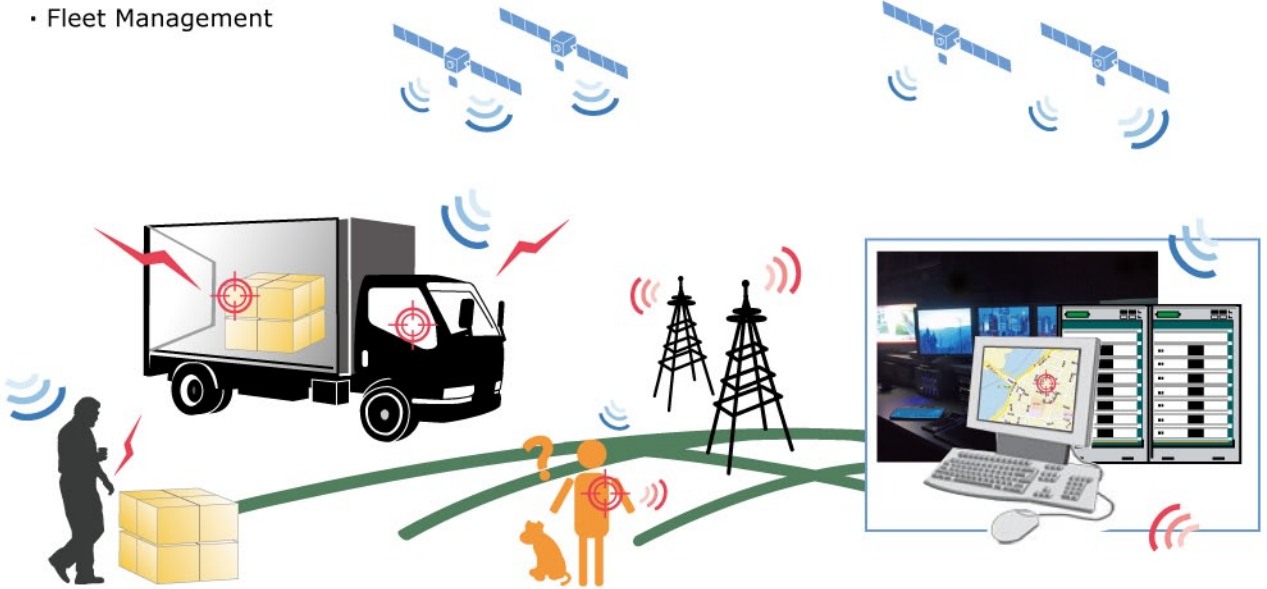


Product Applications

System Intergration Application

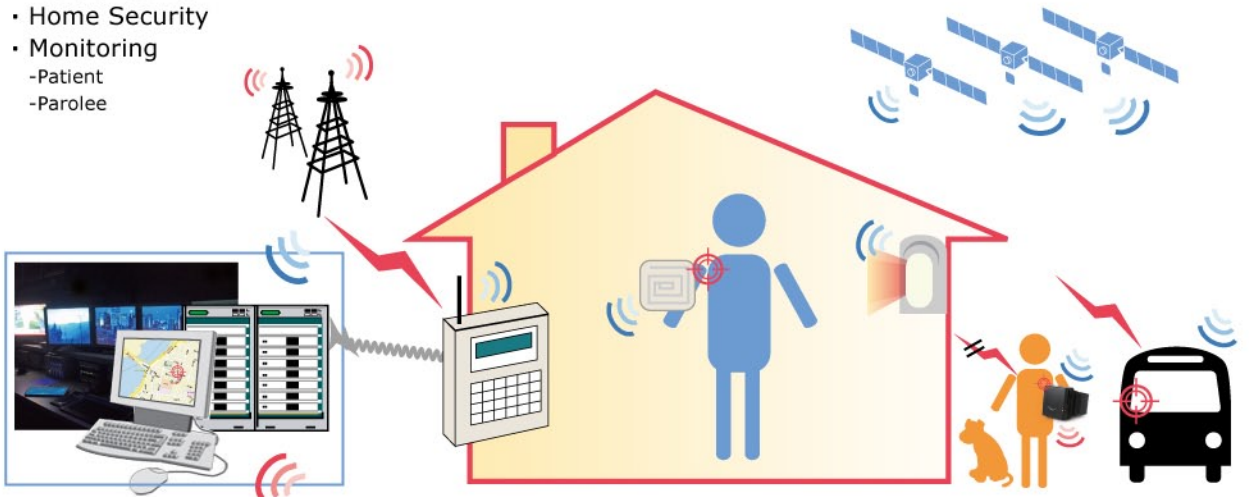
Logistics/Tracking

- Asset Tracking
- Container Tracking
- Fleet Management



Security/Monitoring

- Personal Safety
 - Elderly Tracking
 - Child Tracking
 - Pet Tracking
 - Vehicle Tracking
- Home Security
- Monitoring
 - Patient
 - Parolee

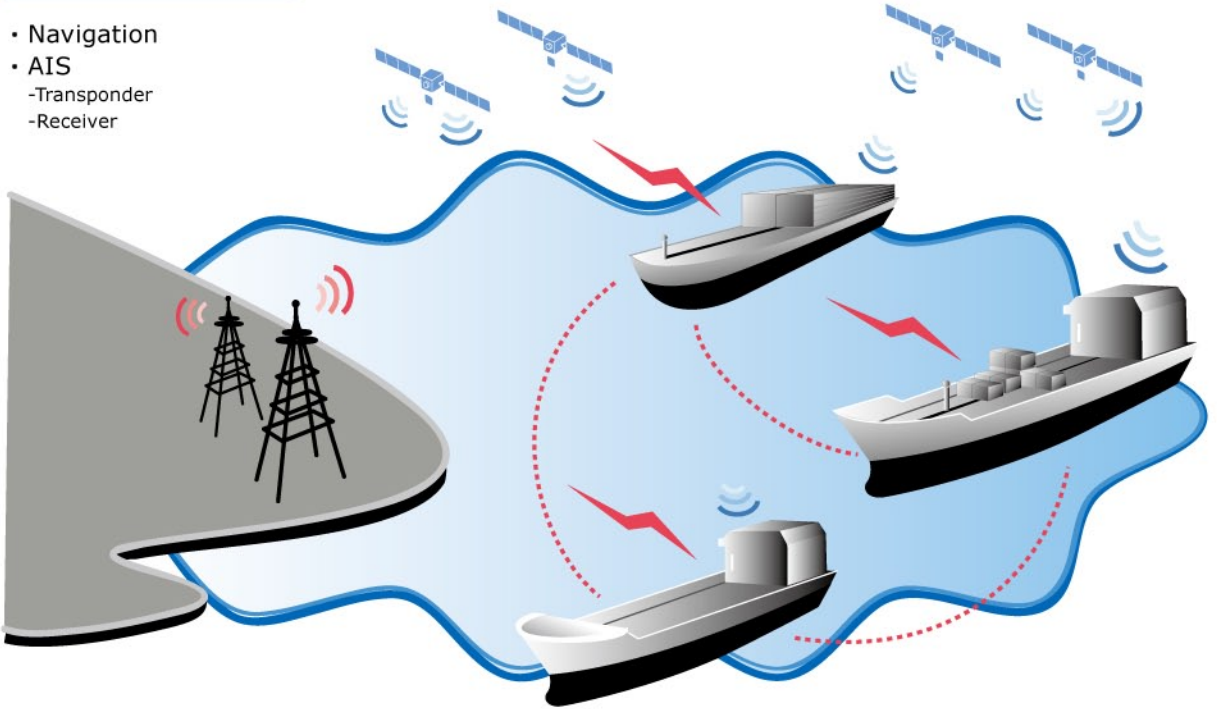


Product Applications

System Intergration Application

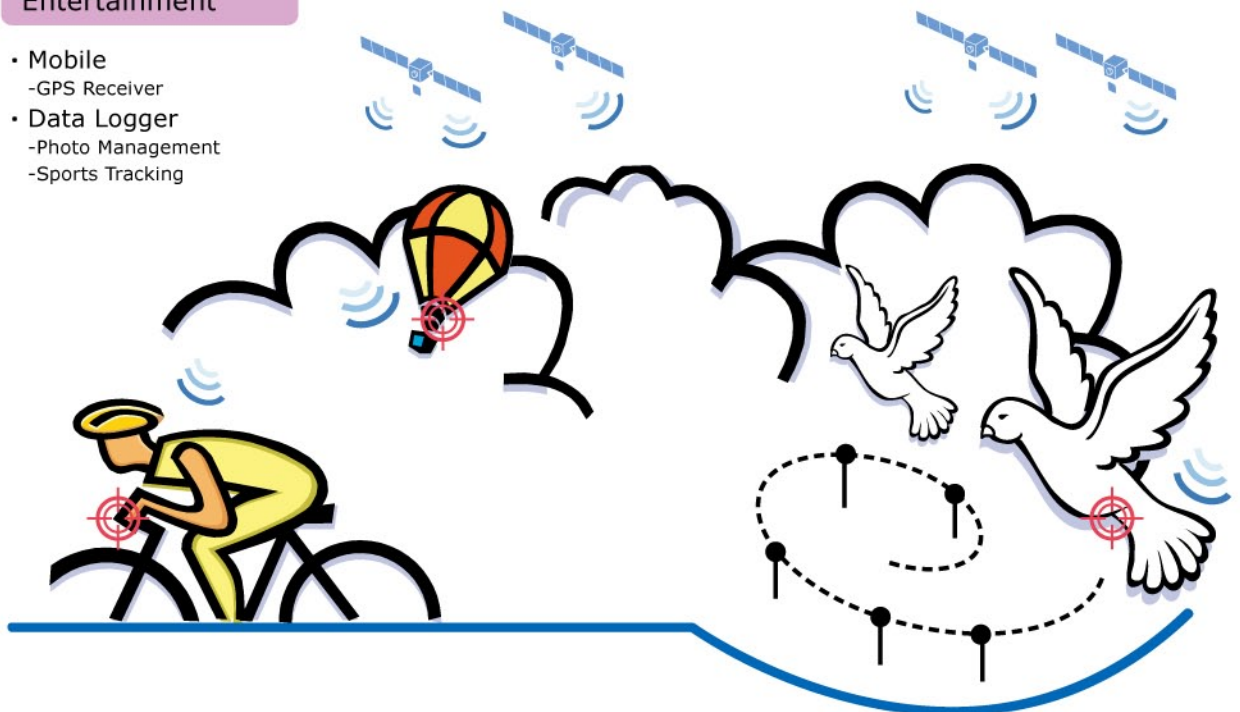
Location

- Navigation
- AIS
 - Transponder
 - Receiver



Entertainment

- Mobile
 - GPS Receiver
- Data Logger
 - Photo Management
 - Sports Tracking



SANAV Product Line

Products

We specialize in making and designing

- GPS/GSM personal trackers,GPS/GSM vehicle trackers
- GPS tracking software
- Marine GPS-AIS transponders,AIS receivers
- GPS receivers,GPS timers,GPS data loggers
- GPS receiver modules

- GPS/GSM/WiFi multi-band antennas, GPS antennas
- GPS Antenna modules
- XM/Sirius antennas
- RFID Module

We also help designing embedded antenna for:

- Portable device such as mobile phone, NB, tablet
- Logistics device such as POS device, RFID reader and tag
- Security and medical monitoring system

GPS Tracker

▶ GPS Personal Tracker

GPS/GSM Portable Tracking Device

GC-101	MT-102	MT-101	CT-24		
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▶ GPS Vehicle Tracker

GPS/GSM Portable Tracking Device

CT-58	CT-68S				
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GPS/GSM Permanent Tracking Device

GX-101					
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Marine Applications

▶ Automatic Identification System

Class-B AIS Transponder

Class-B AIS Receiver

AIS-700					
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AIS-2					
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▶ Marine GPS Receiver

VP-88K	GM-88K	GM-44-UB	GM-44-S	VP-200	
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▶ Marine GPS Antenna

GA-88P	RV-76	RV-19	SA-200		
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▶ Marine VHF Antenna

EHN-101					
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GPS Products

▶ GPS Data Logger

ML-7	ML-7S				
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▶ GPS Mouse(Locator)

TK-158	GM-158	GM-48-UB	GM-48-S		
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▶ GPS Timing Receiver

VP-200T					
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▶ GPS Receiver Module

TK-1315	TK-1315TA	TK-1315LA	TK-1722	FV-M5	FV-M8
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FV-M7	FV-M11	FV-5H	FV-5A	FV-35	FV-15L
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RF Antenna

▶ GPS Antenna

SM-76	SM-19	SM-66	SM-67	MK-76	MA-25
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▶ GPS/GLONASS Antenna

DS-56					
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▶ GPS Antenna Module

D-10	D-12	GD-12	D-18		
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▶ Combo Antenna

AU-3S/3C	AU-4S/4C	AW-3C	AU-7	AW-4S/4C	EPH-001
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▶ Directional&WLAN Antenna

UPH-209	UPH-108	UPH-107	UPH-203	UPH-103	EEN-109,110
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▶ WiFi Antenna

EEN-101	EEN-105	EEN-106	ECH-101	CEN-101	CEN-102
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▶ GSM&3G Antenna

EEN-401	EEN-402	EEN-403	ECH-401	EEN-404	EPH-401
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EEPH-402	EPH-405	EEN-102	EEN-104	ECH-103	
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▶ DVBT Antenna

EEN-113	UFH-101	UFH-104	UFH-102	ECH-102	EPH-201
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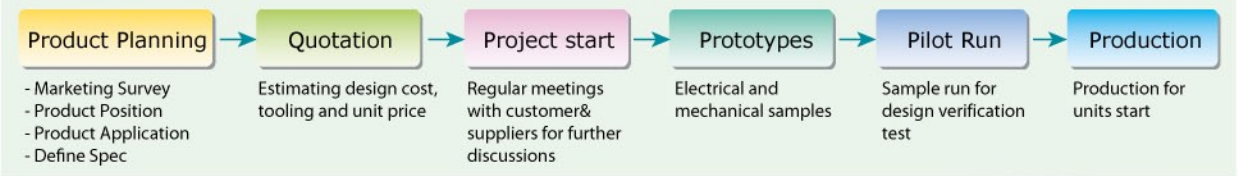
SANAV's Areas of Expertise

Design

We offer customer-specific applications that are fully integrated into our customers' requirements. With our innovative design, years of manufacturing experience and capabilities, together with the latest technologies, we are able to deliver our customers with high quality solutions from start to finish.

The Product Design procedure starts with the notion of having customers' own product identity. We also work closely with our customers to enhance communication and ensure that the best possible solutions are reached. The stages of the Customized Product Design procedure are summarized below.

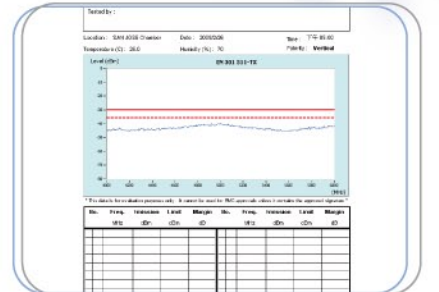
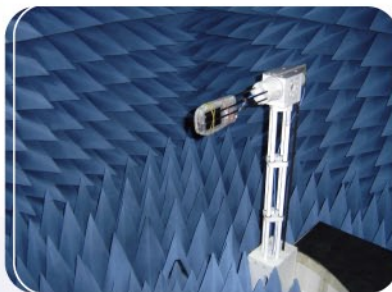
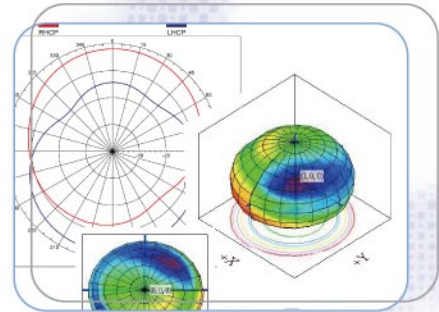
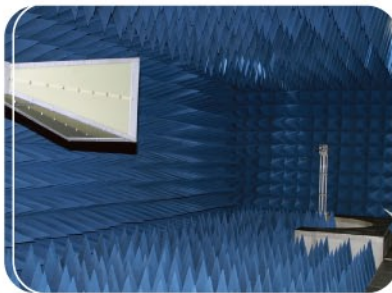
Project Process:



SANAV's Equipment

3D Chamber

SANAV has a state-of-the-art Antenna Test Lab designed for near-field tests and measurements of antenna devices. The lab is fully fitted with the standards and specifications of CTIA (Cellular Telecommunication & Internet Association).



► The tapered chamber is designed for wave absorption. Measurement data, including EIRP, 2D Gain, sensitivity, 3D Gain, TRP and TIS are provided.

SANAV's Areas of Expertise

Quality Management

The quality management at SANAV includes the following features:

- Extended Customers Simulation Audit, XCSA
- Total Quality Management, TQM
- Design Quality Assurance, DQA
- Design Verification Testing, DVT
- Manufacturing Verification Testing, MVT
- Quality Verification Testing, QVT
- Supplier Quality Assurance, SQA
- Continuous Improvement Program, CIP

Quality Control

We have our own production line on site and well-trained staffs to ensure our strict quality control requirements are reached.



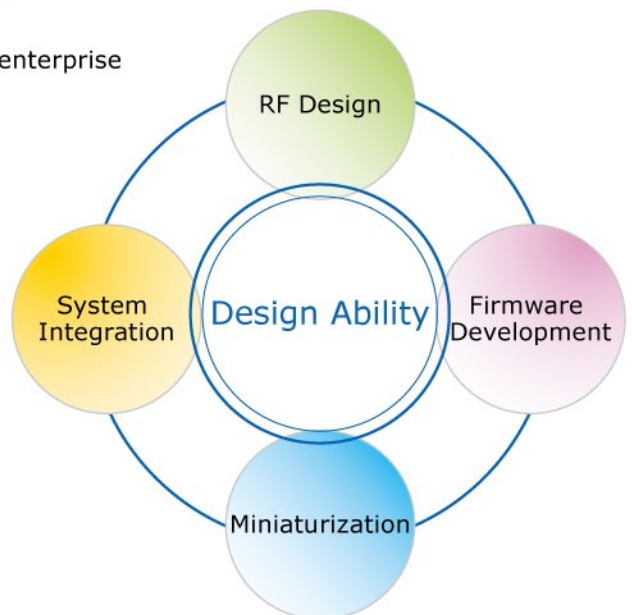
The Shielded Room is designed to prevent waves leak-in. ▶

R&D Capability

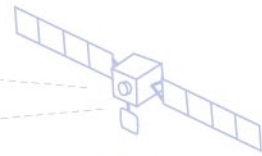
- 15-year experience in GPS and Antenna products
- 6-year experience in GPS/GSM integration
- Sanav is positioned as a professional ODM/OEM enterprise
- Provides M2M&RF related products and solutions

RD Experience

- Arima Communication Corp.
- Compal Communications, Inc
- Compal PMCC
- DBTEL Taiwan Limited
- DNET International Co., LTD.
- Inventec Appliances Corp. (OKWAP)
- Gemtek
- Mitac
- Mitac International Corp.
- Senao International Co., LTD
- Topping Communication Tec. CO., LTD
- Hon Hai Precision IND. CO., LTD.
- Panasonic Industrial CO., LTD.



GPS Tracker



GPS Personal Tracker | GPS/GSM Portable Tracking Device



MT-101



MT-102

		CT-24	GC-101	MT-101/102
Dimension (mm)		43.2(W) x 64.6(L) x 27.7(H) (with a 1800mA battery)	43.2(W) x 64.7(L) x 22.8(H)	39.7(W) x 47.3(L) x 24 (H) @MT-101 47.3(W) x 54.5(L) x 28.9(H)@MT-102
Device Weight		92g (with a 1800mA battery)	75g (1100mA battery included)	52.5g/53.5g (650mA battery included)
Frequency	GSM	850/1800/1900 or 900/1800/1900 MHz	850/1800/1900 or 900/1800/1900 MHz	850/1800/1900 or 900/1800/1900 MHz
	GPS	1575.42 MHz		
GPS&GSM Position		Fast GPS&GSM Acquisition		
Battery Power		Li-Ion Battery,1800mA	Li-Ion Battery, 1100mA (Optional: 1800mA)	Li-Ion Battery, 650mA
External Power		6V DC		5V DC
Bettery Operation Time		> 150 hours (1800mA battery with one report per hours)(Passive mode)	50 hours (Full charged, one report per hours)	50 hours (Full charged, one report per hours)
Operating Temperature		-5°C to + 55°C	-5°C to + 55°C	-5°C to + 55°C
Storage Temperature		-5°C to + 55°C	-5°C to + 60°C	-5°C to + 60°C

*Specifications subject to change without notice

GPS Vehicle Tracker | GPS/GSM/GPRS Portable Tracking Device

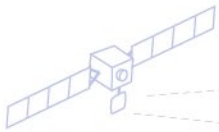


Solar cell power 4.5V/17mA

		CT-58	CT-68S (Solar power)
Frequency	GSM	850/1800/1900 or 900/1800/1900 MHz	850/1800/1900 or 900/1800/1900 MHz
	GPS	1575.42 MHz	
GPS Receiver		--	Supports A-GPS service
External Power		6V DC	
Battery Power		Li-Polymer,1500mA	Li-Polymer,1500mA
Bettery Operation (one report/per hour)		70~75 hours	250 hours (Power saving mode)
Dimension (mm)		84 (W) x 64(L) x 23 (H) mm	86.5(L) x66.5(W) x 25.6(H) mm
Device Weight		98g (1500mA battery included)	104g (1500mA battery included)
Operating Temperature		-20°C to + 70°C	-20°C to + 70°C
Storage Temperature		-25°C to + 75°C	-20°C to + 75°C

*Specifications subject to change without notice





GPS Tracker

GPS Vehicle Tracker | GPS/GSM Permanent Tracking Device



- High GPS and GSM sensitivity
- Send position via defined routers (HTTP,TCP,UDP,SMS)
- 2 Outputs and 6 Inputs are available
- Configure via PC software or SMS
- Programmable auto report by time interval
- Polling current position by dialing or sending an SMS command



GX-101

GM-158

GX-101

GPS	MTK-3301	Antenna	External GSM antenna
Sensitivity	-158db	External Power Supply	12.0 ~ 24.0 V DC
Reacquisition	<0.1s	Current Consumption	180mA @ 12V DC
Hot	1 sec. typical	Battery Capacity	1100mA or 1800mA Li-ion battery
Warm	38 sec. typical	Dimension	105(L) x 100(W) x 30(H) mm
Cold	42 sec. typical	I/O	6 Sets Input NC/ND I/O, 2 Sets output I/O
Interface	PS-2 (TTL)	Power Output	12V~24V DC
GSM Frequency	850/1800/1900 or 900/1800/1900 MHz	Operation Temperature	-20°C ~ 70°C

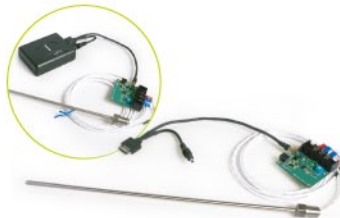
* This specification is subject to change without prior notice

Accessory |

For GPS/GSM Tracking Device



Tracker Car kit
RT-99



Temperature Sensor Board
TS-01



Reed switch
Vibration sensor

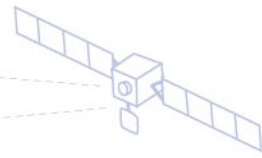


Voltage: 8 ~ 35V
Output: fixed 6V

Car Charger
PX-3KR



Marine Applications



Marine Applications

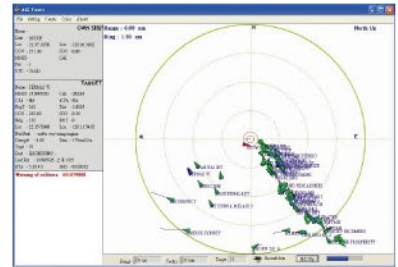
Automatic Identification System | VHF+GPS



AIS works by integrating a VHF transponder, GPS receiver and display plotter and is designed for collision avoidance.

SANAV provides high-quality AIS key components .

We understand safety is the top priority at sea.



Class-B Universal AIS Transponder

AIS-700, the dual channel VHF transceiver is designed to broadcast its own vessel's position and receive the position data from the surrounding vessels in order to prevent collisions.

Features

- Equipped with 2-channel AIS transponder
- Enabled with GPS receiver
- Enabled with GPS antenna



AIS-700 (Transponder)

Frequency	161.975 to 162.025 MHz in 25 kHz steps	Electrical Interfaces	RS232 38.4kBaud bi-directional RS422 NMEA 38.4kBaud bi-directional
Channel Spacing	25KHz	RX Sensitivity	-107dBm 25kHz
GPS Chipset	Furuno	Operating Temperature	-25°C to +55°C
Channel Bandwidth	25kHz	Dimension(mm)	140(L) x 131.4(W) x 46(H)
Channel Step	25kHz	Weight	550g
Modulation Modes	25kHz GMSK (AIS, TX and RX)	Indicators	On, TX, RX, Status, TX timeout, Error, TX Off
Bit rate	9600 b/s +/-50 ppm (GMSK)	Connector	BNC(VHF), TNC(GPS), DB9(RS232/RS422)
Power Consumption	4W	Output Port	4 -pole Plug
Power Supply Range	9 ~ 30V DC	Output Power	33dBm +/-1.5 dB

Class-B Universal AIS Receiver

AIS-2 is a cost-effective dual channel VHF receiver designed to receive and decode transmissions from vessels fitted with Class A & Class B AIS transceiver.

AIS-2 (Receiver)

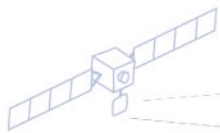
Frequency	AIS 161.975MHz AIS 162.025MHz	Baud Rate	38400 Baud (38.4Kb) or 4800 (internal link)
Channel Spacing	25KHz	Format	ITU / NMEA0183
GPS Chipset	Furuno	Output Message	VDM
Sensitivity	-107dBm	Dimension(mm)	140(L) x 131.4(W) x 46(H)
Demodulation	GMSK	Weight	600g
Data Rate	9600	Mounting	Screw Mounting
Antenna Impedance	50 ohms	Connector	BNC(VHF), SMA(GPS)
Power Consumption	110mA@12V	Output Port	9-pin D Socket
Power Supply Range	9 ~ 30V DC	Power	4 -pole Plug

AIS Receiver
(Equipped with GPS)



* This specification is subject to change without prior notice

GPS & Wireless Solutions



Marine Applications

Marine Applications





((O)) Marine GPS Receiver



	VP-88K	GM-88K	GM-44-UB	GM-44-S	VP-200
GPS Chipset	MTK-3301		Antaris4	SiRF III	Furuno
Channel	32		20	20	16
Mounting	Pole Mount		Pole Mount		Pole Mount
Signal Output	RS-232(standard)		RS-232 or USB		RS-232
Sensitivity	-158dbm		-150dbm	-159dbm	-138dbm
TTFF (Hot/Warm/Cold)	1s / 35s / 41s		1s / 32s / 32s	1s / 35s / 42s	3s / 20s / 45s
Current Consumption	34mA		60mA	80mA	1.1W
Update Rate	1 ~ 5Hz		1Hz	1Hz	1Hz
SBAS (WAAS, EGNOS, RTCM)	1 channel		3 channels	1 channel	1 channel
Accuracy Without Aid	3.3m		<2.5m	10m	15m
Accuracy With DGPS	2.6m		<2.0m	5.0m	1~5m RMS
Baud Rate	4800/9600/19200/38400 /115200 bps are adjustable		2400/4800/9600/38400/57600/115200 bps are adjustable	4800 bps	4800 bps
Output Sentences	RMC, GGA, GSV*5, VTG, GSA*5		GGA, RMC, GSV, VTG, GSA	GGA, RMC, GSV, GSA	GLL,GGA,VTG,ZDA

* This specification is subject to change without prior notice

((O)) Marine GPS Antenna

	Model	Frequency	Dimension (mm/Inch)	Mounting	Gain (LNA)	Power Supply	Current Consumption	VSWR
	GA-88P	1575.42 MHz	Ø80/31.5 (L) 71.3/28.1 (H)	Pole Mount	30dB	3.0~5.5V DC	18mA	<1.5
	RV-76		60/23.6 (D) 38/14.9(H)	Pole Mount	30dB	3.0~5.5V DC	12mA	<2.0
	RV-19				14dB	2.5~3.3V DC	6mA	<2.0
	SA-200		115/44.8 (D) 74/29.1 (H)	Pole Mount	30dB	2.5~3.3V DC	28mA	<1.5

((O)) Marine VHF Antenna

	Frequency	Dimension	Mounting	Polarization	Amplifier Gain	Input Ground	Impedance	VSWR
 VHF Antenna	156 MHz 162 MHz	88CM (L)	Pole Mount	Vertical	3 dB Typical	100 Max.	50 ohm	<1.3

* This specification is subject to change without prior notice

GPS Products

GPS Data Logger ▶ Thumb-Sized GPS Logger



Features

- 51 independent tracking channels
- Ultra small size
- 16Mb flash memory
- For the use of Sports and Recreation
- Light and portable



ML-7/7S

Dimension (mm)	46.9(L) x 18.1(W) x 14.9(H)	Device Weight	12.4g
Battery	Include 170mA	Sensitivity	-158dBm
Battery Life	ML-7: 5~6 hours ML-7S: 60Hrs for 3min/point (Default can not be changed by user but San Jose Technology, Inc.)	Serial Interface	TTL@2.8V
Supply Voltage	DC 5V	NMEA Message	NMEA0183, default 115200 Output: GGA,GSA,GSV,RMC Log: RMC
Power Consumption	Data Record Mode <60mA Power Saving Mode<0.5mA Tracking: 30mA	Operating Temperature	0°C~ 40°C / -20°C~ 60°C
		Accessories	USB cable charger

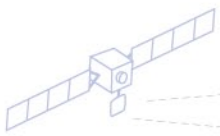
* This specification is subject to change without prior notice

GPS Mouse ▶



	TK-158	GM-158	GM-48-UB	GM-48-S
GPS Chipset	Atheros	MTK-3301	Antaris4	SIRF III
Channel	20	32	20	20
Mounting	Magnetic Mount	Magnetic Mount	Magnetic Mount	Magnetic Mount
Signal Output	RS-232 or USB	RS-232 or USB	RS-232 or USB	RS-232 or USB
Sensitivity	-159dbm	-158dbm	-150dbm	-159dbm
TTFB (Hot/Warm/Cold)	<5s / 45s / 45s	3s / 35s / 41s	1s / 32s / 32s	1s / 35s / 42s
Current Consumption	60mA	33mA	60mA	80mA
Update Rate	1Hz	1 ~ 5Hz	1Hz	1Hz
SBAS (WAAS, EGNOS, RTCM)	-	1 channel	3 channels	1 channel
Accuracy Without Aid	2.9m	3.3m	<2.5m	10m
Accuracy With DGPS	-	2.6m	<2.0m	5.0m
Baud Rate	9600 bps (default)	4800/9600/38400/57600 /115200 bps are adjustable	2400/4800/9600/38400/57600 /115200 bps are adjustable	4600 bps
Output Sentences	GGA, RMC, GSV, VTG, GSA	GGA, RMC, VTG, GSV*5, GSA*5	GGA, RMC, GSV, VTG, GSA	GGA, RMC, GSV, GSA

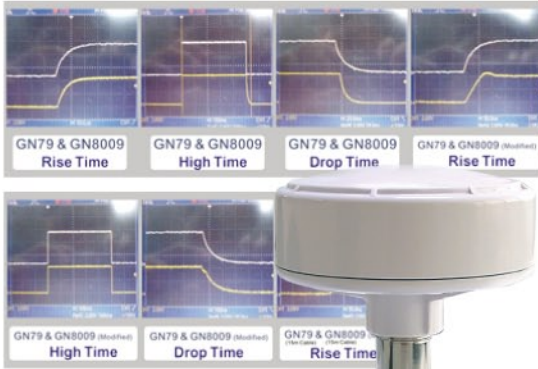
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GPS Products

GPS Timing Receiver

Provides 1PPS For Time Precision Applications



VP-200T		
GPS Chipset	Furuno	
Channel	16	
Dimension (mm)	114(D) x 74(H)	
Sensitivity	-138dbm (Tracking)	
Start-up Time	Hot	3s
	Warm	20s
	Cold	45s
Current Consumption	130mA @ 5V	
Accuracy With DGPS	1~5m RMS	
1PPS Output	TTL signal level	
Accuracy \ Without Aid	15m RMS	
1 PPS Timing Accuracy	1μ sec. typical/ 100ns after calibration	
1PPS Pulse Level	3.3V (5V optional)	

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GPS Receiver Module

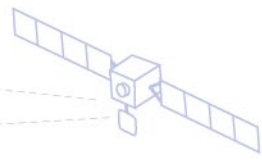
Low cost and high-sensitivity mini GPS receiver modules



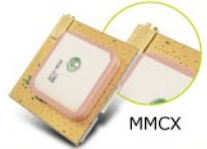
	TK-1315	TK-1315TA	TK-1315LA	TK-1722
GPS Chipset	Atheros	Atheros	Atheros	Atheros
Channel	20	20	20	20
Interface	Stamp Hole	14-pin stamp holes	6 pin Connectors	Stamp Hole
Dimension (mm)	13(W) x 15(L) x 2.2(H)	14(W) x 24(L) x 13(H)	14(W) x 42(L) x 7.1(H)	17(W) x 22.4(L) x 2.9(H)
Sensitivity	-159dbm	-159dbm	-159dbm	-159dbm
Start-up Time	Hot	<5s	<5s	<5s
	Warm	45s	45s	45s
	Cold	45s	45s	45s
Current Consumption	Acquisition	53mA	53mA	53mA
	Tracking	43mA	43mA	43mA
Update Rate	1 Hz	1 Hz	1 Hz	1 Hz
Position accuracy	3.0m	3.0m	3.0m	3.0m
Power Supply	3.3V +- 5%	3.3V +- 5%	3.3V +- 5%	3.3V +- 5%
Baud Rate	9600 bps (default) & 4800/9600/38400/57600/115200 bps are adjustable			
Output Sentences	GGA, RMC, GSV, GSA, VTG			

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GPS Products



(O) GPS Receiver Module ▶

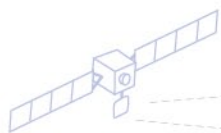


		FV-M5	FV-M8	FV-M7	FV-M11
GPS Chipset		MTK-3301	MTK-3301	MTK-3301	MTK-3301
Channel		32	32	32	32
Interface		Stamp Hole	8-Pin Connector	12-Pin Connector	8-Pin Connector
Dimension (mm)		20(W) x 27.9(L) x 2.9(H)	30(W) x 30(L) x 8.6(H)	35(W) x 40.5(L) x 13.7(H)	35.4(W) x 35.4(L) x 8.6(H)
Sensitivity		-158dbm	-158dbm	-158dbm	-158dbm
Start-up Time	Hot	1s	1s	1s	1s
	Warm	35s	35s	35s	35s
	Cold	41s	41s	41s	41s
Current Consumption	Acquisition	55mA	59mA	56mA	59mA
	Tracking	30mA	33mA	31mA	33mA
Update Rate		1 ~ 5Hz	1 ~ 5Hz	1~5Hz	1~5Hz
SBAS (WAAS, EGNOS, RTCM)		1 channel	1 channel	1 channel	1 channel
Accuracy Without Aid		3.3m	3.3m	3.3m	3.3m
Accuracy With DGPS		2.6m	2.6m	2.6m	2.6m
Baud Rate		4800/9600/38400 /57600/115200 bps are adjustable	4800/9600/38400 /57600/115200 bps are adjustable	4800/9600/38400 /57600/115200 bps are adjustable	4800/9600/38400 /57600/115200 bps are adjustable
Output Sentences		GGA, RMC, VTG, GSV*5, GSA*5	GGA, RMC, VTG, GSV*5, GSA*5	GGA, RMC, VTG, GSV*5, GSA*5	GGA, RMC, VTG, GSV*5, GSA*5



		FV-5H	FV-5A	FV-35	FV-15L
GPS Chipset		Antaris4-SS	Antaris4	SiRF III	SiRF III
Channel		50	50	20	20
Interface		Stamp Hole	Stamp Hole	Stamp Hole	6-Pin Connectors
Dimension (mm)		17(W) x 22(L)	17(W) x 22(L)	13(W) x 14.65(L) x 2.2(H)	15(W) x 24(L) x 7.5(H)
Sensitivity		-160dbm	-160dbm	-159dbm	-159dbm
Start-up Time	Hot	1s	1s	1s	1s
	Warm	29s	32s	35s	35s
	Cold	29s	32s	35s	35s
Current Consumption	Acquisition	70mA	70mA	33mA	30mA
	Tracking	40mA	40mA	32mA	30mA
Update Rate		1 ~ 4Hz	1 ~ 4 Hz	1 Hz	1 Hz
SBAS (WAAS, EGNOS, RTCM)		3 channels	3 channel	1 channels	1 channels
Accuracy Without Aid		2.5m	2.5m	10m	10m
Accuracy With DGPS		2.0m	2.0m	5.0m	5.0m
Baud Rate		2400/4800/9600/38400/57600/115200 bps are adjustable		4800 bps	
Output Sentences		GGA, RMC, GSV, GSA, VTG		GGA, RMC, GSV, GSA	

* This specification is subject to change without prior notice



RF Antenna

(O) GPS Antenna

	Model	Frequency	Dimension (mm/Inch)	Mounting	Gain (LNA)	Power Supply	Current Consumption	VSWR
	SM-76	1575.42 MHz	58/22.8 (L) 48/18.8 (W) 15/5.9 (H)	Magnetic Mount	28dB	3.0~5.5V DC	12mA	<2.0
	SM-19				14dB	2.5~3.3V DC	6mA	<2.0
	SM-66				30dB	4.5~5.5V DC	28mA	<1.5
	SM-67				30dB	4.5~5.5V DC	28mA	<1.5
	MK-76		34/13.3 (L) 25/9.8 (W) 11/4.3 (H)	Magnetic Mount	28dB	2.5~5V DC	12mA	<2.0
	MA-25		46/18.1 (L) 38/14.9 (W) 12.5/4.7 (H)	Magnetic Mount	28dB	3.0~5.5V DC	12mA	<2.0
	GA-88P		Ø80/31.5 (L) 71.3/28.1 (H)	Pole Mount	28dB	3.0~5.5V DC	12mA	<1.5
	RV-76		60/23.6 (D) 38/14.9(H)	Pole Mount	28dB	3.0~5.5V DC	12mA	<2.0
	RV-19	14dB			2.5~3.3V DC	6mA	<2.0	
	SA-200	115/44.8 (D) 74/29.1 (H)	Pole Mount	30dB	2.5~3.3V DC	28mA	<1.5	

(O) GPS/GLONASS Antenna

DS-56	Frequency	Dimension (mm/Inch)	Mounting	Peak Gain	Amplifier Gain	Power Supply	Current Consumption	VSWR
	1575 MHz 1602 MHz	58/22.8 (L) 48/18.8 (W) 15/5.9 (H)	Pole Mount	4 dBic min /1575 MHz, 4 dBic min/ 1602-1616 MHz	27 dB Typical	3 ~ 5V DC	18+/- 3 mA	<2.0

* This specification is subject to change without prior notice

(O) GPS Antenna Module

It's specially designed for the portable device that needs GPS antenna embedded such as PND, laptop, mobile phone and so on.

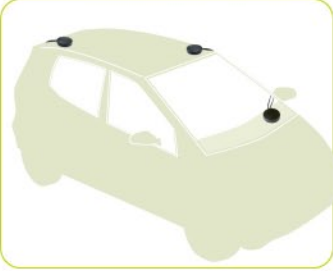
	Model	Frequency	Dimension (mm/Inch)	Power Supply	Amplifier Gain	Current Consumption	VSWR
	D-10	1575.42 MHz	10/3.9 (L) 10/3.9 (W) 6.25/2.46 (H)	2.8~3.3V DC	17 dB	3.8mA @3.0VDC	<2.0
	D-12		12/4.8 (L) 12/4.8 (W) 6.5/2.55 (H)	3V DC	17 dB	3.9mA @3.0V DC	<2.0
	GD-12		13/5.12 (L) 19/7.48 (W) 6.25/2.46 (H)	2.8~3.3V DC	17 dB	6.2mA @3.0VDC	<2.0
	D-18		18/7.08 (L) 18/7.08 (W) 8.0/3.14 (H)	2.5 ~ 3.3V DC	15 dB	4.5~8.0mA @2.5~3.3V DC	<2.0

* This specification is subject to change without prior notice

RF Antenna

RF Antenna

Combo Antenna ▶ 850MHz~2100MHz



Features

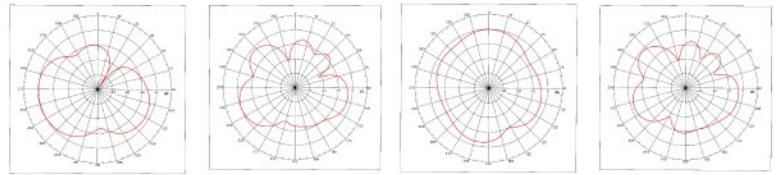
- Low Noise Figure
- Fully Waterproof
- Ultra-high Sensitivity
- Compact Construction
- Excellent Temperature Stability





Pole Mount: AU-3C,AU-4C,AW-3C,AW-4C

Magnetic Mount: AU-3S


Magnetic/Velcro/ 3M sticker:AU-4S.AW-4S

Velcro/ 3M sticker :AU-7



	Model	Frequency	Dimension (mm/Inch)	Material	Gain (LNA/RF)	Power Supply	Current Consumption	VSWR	
 IP67	AU-3S	GPS	1575.42 MHz	64.5/22.8 (D)	metal (Radome)	27dB	3.0~5.5V DC	10~14mA	1.8
	AU-3C	Cellular	850/900/1800 /1900 MHz	14/18.8 (H)	plastic (Base)	0dB(peak)	Power Handling Capacity: 10 W	--	1.8
 IP67	AU-4S	GPS	1575.42 MHz	63/22.8 (D)	plastic	27dB	3.0~5.5V DC	10~14mA	1.8
	AU-4C	Cellular	850/900/1800 /1900/2100 MHz	15.6/18.8 (H)		+1.5dB(peak)	Power Handling Capacity: 10 W	--	2.3
 IP66	AW-3C	GPS	1575.42 MHz	64.5/22.8 (D)	metal (Radome) plastic (Base)	27dB	3.0~5.5V DC	10~14mA	1.8
		Cellular	850/900/1800 /1900 MHz	19.5/18.8 (H)		0dB(peak)	Power Handling Capacity: 10 W	--	2.3
		WiFi	2.4G						
 IP64	AU-7	GPS	1575.42 MHz	50.2/22.8 (D)	plastic	27dB	3.0~5.5V DC	10~14mA	1.8
		Cellular	850/900/1800 /1900 MHz	12.2/18.8 (H)		+1dB(peak)	Power Handling Capacity: 10 W	--	2.3
 IP66	AW-4S AW-4C	GPS	1575.42 MHz	63/22.8 (D)	plastic	27dB	3.0~5.5V DC	10~14mA	1.8
		Cellular	850/900/1800 /1900/2100 MHz	15.6/18.8 (H)		+1.5dB(peak)	Power Handling Capacity: 10 W	--	2.3
		WiFi	2.4G						
 GPS+VHF	EPH-001	GPS	1575.42 MHz	59/23.2 (L)	plastic	27dB	3.0~5.5V DC	10~14mA	2.0
		Cellular	174~2.4G	111.5/43.9 (W) 7.22/2.84(H)		2.2dB(peak)	Power Handling Capacity: 10 W	--	2.0

Wide-Band Antenna

	Model	Frequency	Gain	Dimension (mm/inch)	Standard Connector	Operating Temperature	Impedance	VSWR
	EPH-801	174~2.4G	2.2dB(peak)	59 (L) x 111.5 (W) x 7.22(H) 23.2 (L) x 43.9 (W) x 2.84(H)	SMA(P)	-40°C ~ +80°C	50ohm	2.0

*Specifications subject to change without notice

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RF Antenna

Directional&WLAN Antenna | 2.4G~5.8GHz



UPH-209	UPH-108	UPH-107	UPH-109	UPH-110	UPH-203	UPH-103	UHH-101	CHH-101
5.5G&5.8GHz	5.8GHz	2.4GHz	DCS1800MHz	PCS1900MHz	2.4G&5GHz	2.4GHz	5.8GHz	2.4GHz

GSM/3G/WiFi Antenna | 850MHz~2.4GHz



EEN-401	EEN-102	EEN-101	EEN-402	EEN-104	EEN-403	EEN-105	EEN-404	EEN-106	CEN-101	CEN-101
850/900/1800/1900	2.1GHz	2.4GHz	850/900/1800/1900	2.1GHz	850/900/1800/1900	2.4GHz	850/900/1800/1900	2.4GHz	2.4GHz	2.4GHz



ECH-401	ECH-101	ECH-103	EPH-401	EPH-402	EPH-101	EPH-405
850/900/1800/1900	2.4GHz	2.1GHz	850/900/1800/1900	850/900/1800/1900	2.4GHz	850/900/1800/1900

Other connector upon request

DVBT Antenna | VHF,UHF



EEN-113	UFH-101	UFH-104	UFH-103	ECH-102	EPH-201
160~164MHz	460~860MHz	460~860MHz	460~840MHz	460~840MHz	174~240MHz 470~860MHz

Other connector upon request

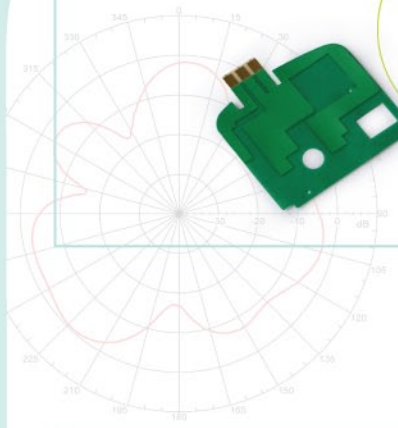
RF Antenna

 Customized Embedded Antenna ▶



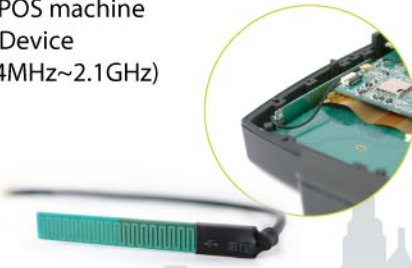
Mobile & Entertainment

For mobile phone
& smartphone
(GPS+824MHz~2.1G)



Logistics/Security

For GPS/GSM
Portable POS machine
Tracking Device
(GPS+824MHz~2.1GHz)



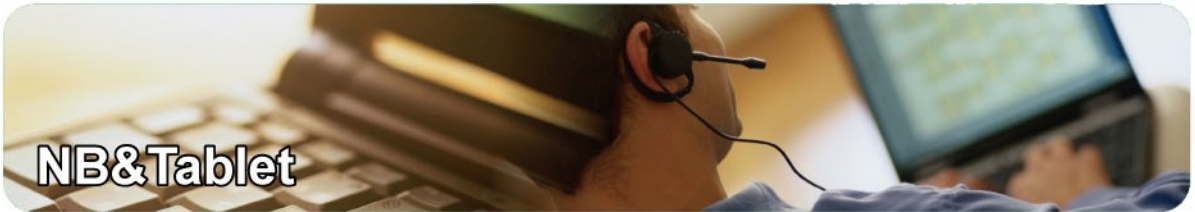


Customized Embedded Antenna



Security & Medical

For GSM/RFID/UHF
Wireless Security System
(UHF+824MHz~2.1GHz)



NB & Tablet

For GPS/GSM
Walkie Talkie, NB & UMPC
(GPS+824MHz~2.1GHz)



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▶▶ We specialize in making and designing

- GPS/GSM personal trackers, GPS/GSM vehicle trackers
- GPS tracking software
- Marine GPS-AIS transponders, AIS receivers
- GPS receivers, GPS timers, GPS data loggers, GPS receiver modules

- GPS/GSM/WiFi multi-band antennas, GPS antennas and modules
- XM/Sirius antennas
- RFID Module

▶▶ We also help designing embedded antenna for:

- Portable device such as mobile phone, NB, tablet
- Logistics device such as POS device, RFID reader and tag
- Security and medical monitoring system



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