

## 6.12. GPS/GSM/GPRS Modules

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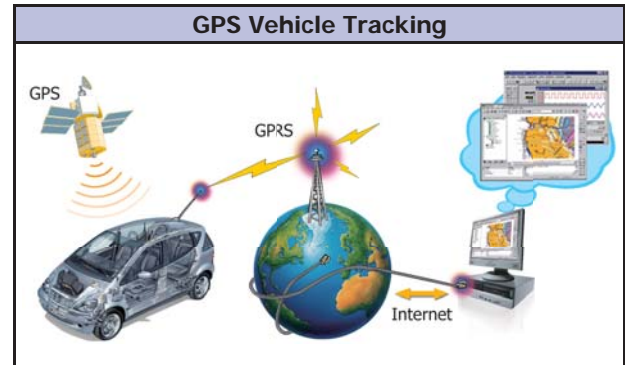
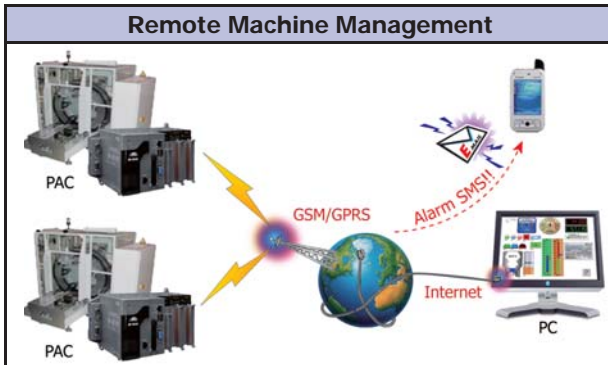
### • Selection Guide

#### ■ Introduction

The I-87211W/I-8212W/I-8213W modules are specially designed for GPS, GSM and GPRS applications in PAC series. They expand the capability of PAC series into Machine to Machine, Mobile, Man communication applications. Also, there are rich demos including IsaGraf, InduSoft and C language for users to integrate these modules into M2M applications. By applying these modules in PAC series, the remote control or monitoring can be implemented easily from any location.

#### ■ Applications

- Remote Machine management
- GPS Vehicle Tracking



Model Name	I-87211W	I-8212W	I-8213W
Pictures			
Specifications			
Digital Output	Output Channel	2 (Sink)	-
	Output Type	Non-isolated Open Collector	-
	Output Current	100 mA	-
	Load Voltage	+5 ~ +30 V <sub>oc</sub>	-
GPS Receiver	Chip	MediaTek solution	MediaTek solution
	Frequency	L1 1575.42 MHz, C/A code	-
	Support Channel	32	-
	Position Accuracy	Capable of SBAS (WAAS, EGNOS, MSAS)	-
	Max. Altitude	<18,000 m	-
	Max. Velocity	<515 m/s	-
	Acquisition Time	Cold Start (Open Sky)=42 s (typical)	-
	Sensitivity	Tracking=Up to -158 dBm	-
		Cold start=Up to -142 dBm	-
Protocol Support	NMEA 0183 version 3.01	-	
GPS Output	1 PPS	Pulse per second output (Default 100 ms pulse/sec)	-
	RS-232 Interface	GPS information output	-
GSM/GPRS	Band	-	850/900/1800/1900 MHz
	GPRS Multi-slot	-	Class 10/8
	GPRS Mobile Station	-	Class B
	GPRS Class 10	-	Max. 85.6 kbps
	CSD	-	Up to 14.4 kbps
	Compliant to GSM phase 2/2+	-	Class 4 (2W @ 850/900 MHz); Class 1(1W @ 1800/1900 MHz)
	Coding Schemes	-	CS 1, CS 2, CS 3, CS 4
	SMS	-	Text and PDU mode
<b>3G</b>	Technology	-	GSM /GPRS /EDGE /UMTS /HSDPA /HSUPA will be available for <b>I-8212W-3GWA</b> and <b>I-8213W-3GWA</b>

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