

Introduction ____

I-87211W module features high sensitivity, low power and ultra small form factor. This GPS module is powered by MediaTek solution, it can provide you with superior sensitivity and performance even in urban canyon and dense foliage environment.

Applications _____

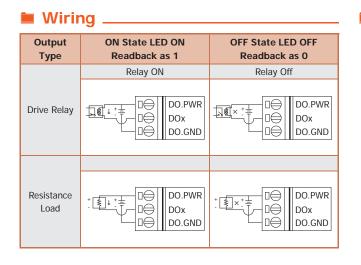
- Satellite time correction • Personal positioning and navigation
- Automotive navigation
- Marine navigation

I/O Specifications __

Digital Output		
Output Channel	2 (Sink)	
Output Type	Non-isolated Open Collector	
Output Current	100 mA	
Load Voltage +5 VDc ~ +30 VDc		

System Specifications _____

Models	I-87211W			
GPS Receiver				
Chip	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			
Startup Time	Cold Start (Open Sky) = 42 s (typical)			
Completivity	Tracking = Up to -158 dBm			
Sensitivity	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			
LED Indicators				
Power/Communication	1 LED			
Digital Output	3 LEDs			
GPS	8 LEDs			
Power				
Power Consumption	0.75 W (Max.)			
Mechanical				
Dimensions (W x L x H)	30 mm x 91 mm x 114 mm			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +75°C			
umidity 5 ~ 95% RH, Non-condensing				



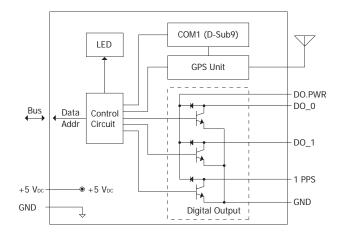
Appearance _____

<i>i</i> -87211W GPB Receiver Module SAT DO 0 1 1 PPS Antenna COM1	Pin Assignment - GPS_TxD GPS_RxD - GND
	СОМ
	Terminal (100) (100

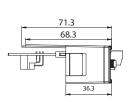
Pin Assignment	Termina	Q	No.	Pin Assignment
-	01		06	
GPS_TxD	02	•	07	
GPS RxD	03	• •		-
	04	•	08	-
GND	05	U	09	-
COM1		O	9-Pin F D-Sub C	emale onnector

		Terminal No.		Pin Assignment
⊒∥∥		C o (01	DO.PWR
		C • (02	DO_0
	[Ç 🛛	03	DO_1
		[• (04	1 PPS
		[• (05	GND
			02 03 04	DO_0 DO_1 1 PPS

Internal I/O Structure _____

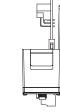


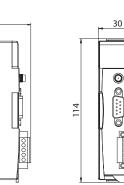
Dimensions (Units: mm) .



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Ordering Information __

I-87211W CR

GPS Receiver Module with 2 DO and 1 PPS output, includs ANT-115-03 (Gray Cover) (RoHS)

101.2

Accessories

ANT-115-03 CR 4PI81K0000001 5 m GPS Active External Antenna (SMA Plug) (RoHS)