



## I-8211W-G

GPS Receiver Module  
(parallel bus type) (Asia Only)

### Features

- Time error under 1 millisecond
- Support 32-channel GPS
- Capable of SBAS (WAAS, EGNOS, MSAS)
- Plug and Play in LinPAC (LX-8x31, LP-8x21) series



### Introduction

The I-8211W is a GPS receiver that been designed to be automatically and precisely time synchronized for the GPS satellite time transmissions. The I-8211W can be plugged into either slot of the LinPAC, the LinPAC will automatically launch the application and get the GPS time to minimize the RTC drift to 1 millisecond.

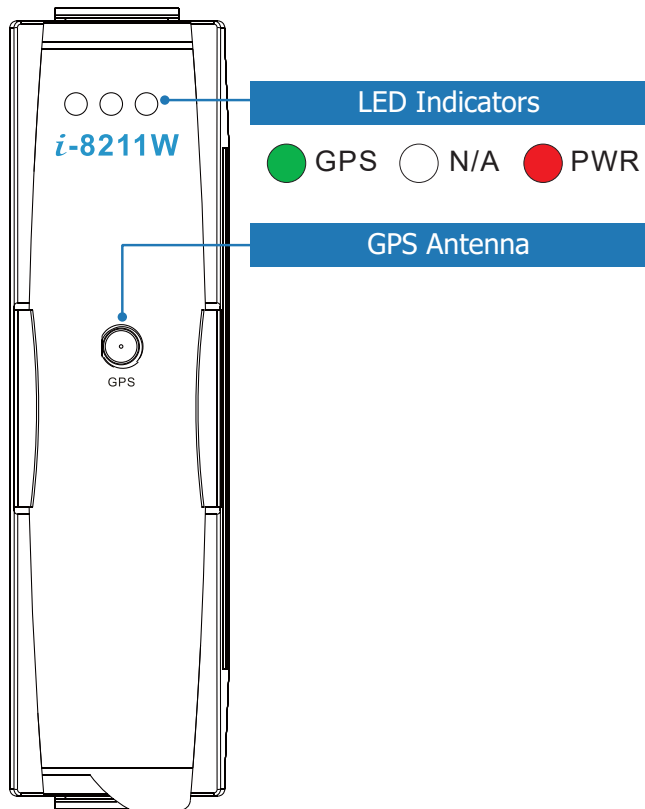
PS: LinPAC with NTPD package: LP-8x21, LX-8x31

```
root@icpdas:~# ntpq -p
      remote           refid      st t when poll reach   delay   offset  jitter
-----
oGPS_NMEA(0)         .GPS.         0 1  15  64  377  0.000  -0.068  0.148
```

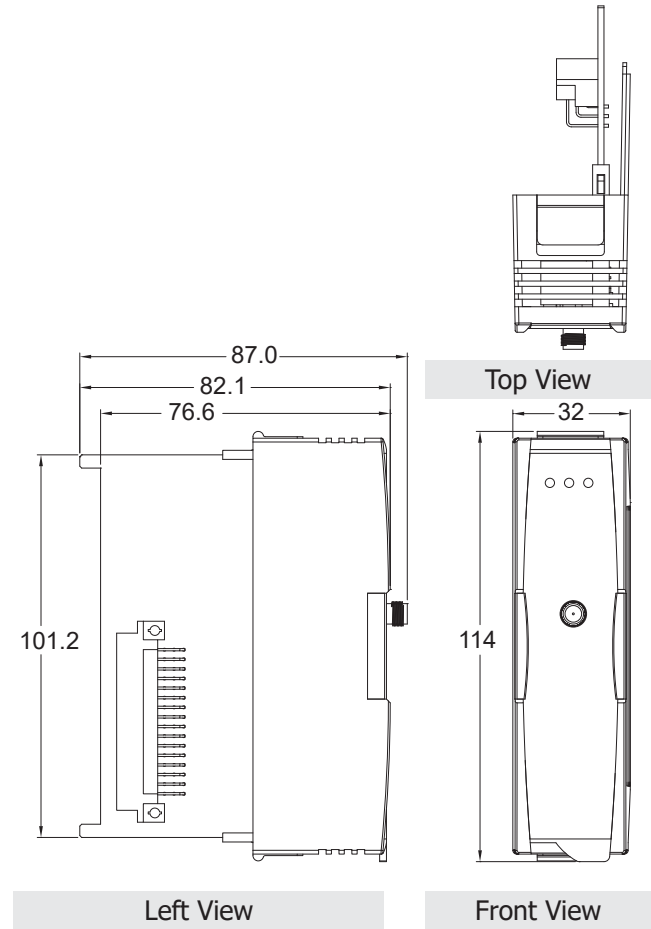
### System Specifications

GPS Receiver	
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
LED Indicators	
Power	1 LED
Communication	1 LED
Power	
Power Consumption	0.75 W (Max.)
Mechanical	
Dimensions (W x L x H)	32 mm x 87 mm x 114 mm
Environment	
Operating Temperature	-25 to +75°C
Storage Temperature	-30 to +75°C
Humidity	5 to 95% RH, Non-condensing

## Pin Assignments



## Dimensions (Units: mm)



## Ordering Information

<b>I-8211W-G CR</b>	GPS Receiver Module (parallel bus type), includes a 5 m GPS antenna (ANT-115-03) (Gray Cover) (RoHS) (Asia Only)
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