



**I-8211W**  
GPS Time Synchronization

**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

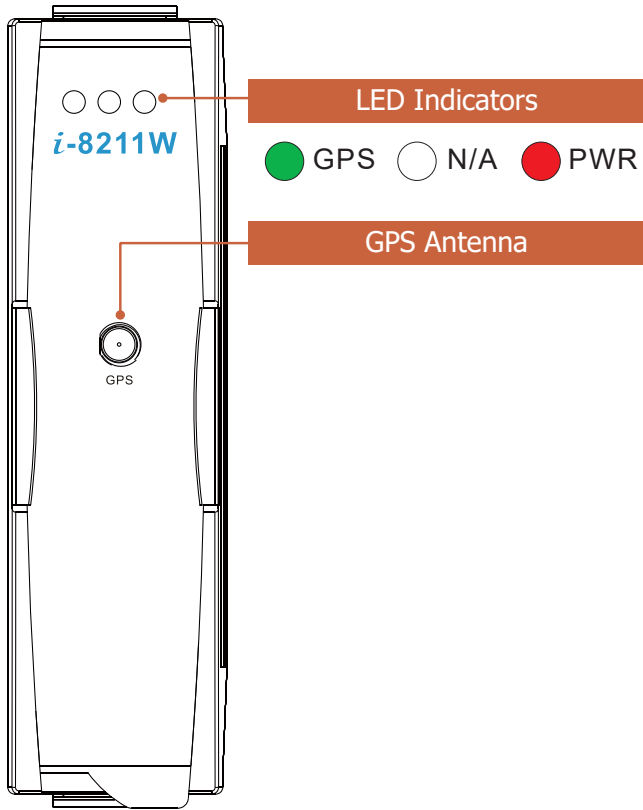
```
root@icpdas:~# ntpq -p
remote          refid          st t when poll reach  delay  offset  jitter
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oGPS_NMEA(0)   .GPS.         0  1  15  64  377  0.000 -0.068  0.148
```

**System Specifications**

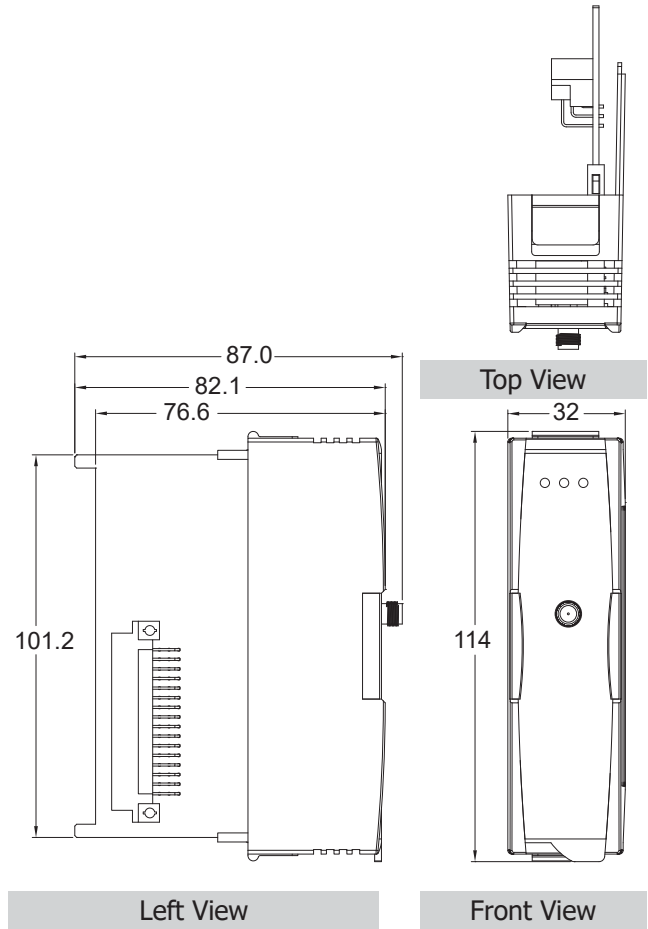
GPS Receiver	
Frequency	L1 1575.42 MHz, C/A code
Support Channel	32
Position Accuracy	Capable of SBAS (WAAS, EGNOS, MSAS)
Max. Altitude	<18,000 m
Max. Velocity	<515 m/s
Acquisition Time	Cold Start (Open Sky)=42 s (typical)
Sensitivity	Tracking=Up to -158 dBm
	Cold start=Up to -142 dBm
Protocol Support	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

I-8211W

**Pin Assignments**



**Dimensions (Units: mm)**



**Ordering Information**

<b>I-8211W CR</b>	GPS Receiver Module (RoHS) and ANT-115-03 GPS Antenna (Length 5m)
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