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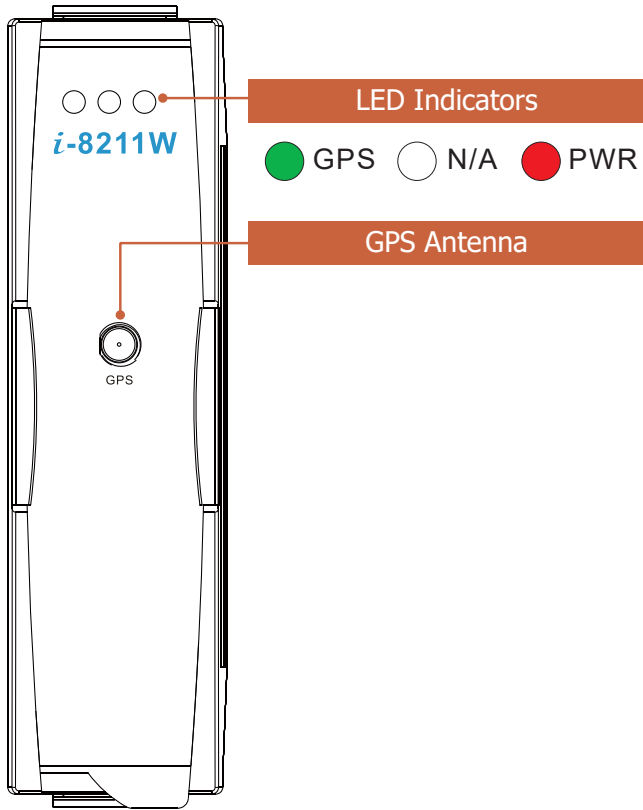
PS: LinPAC with NTPD package: LP-8x21, LX-8x31

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

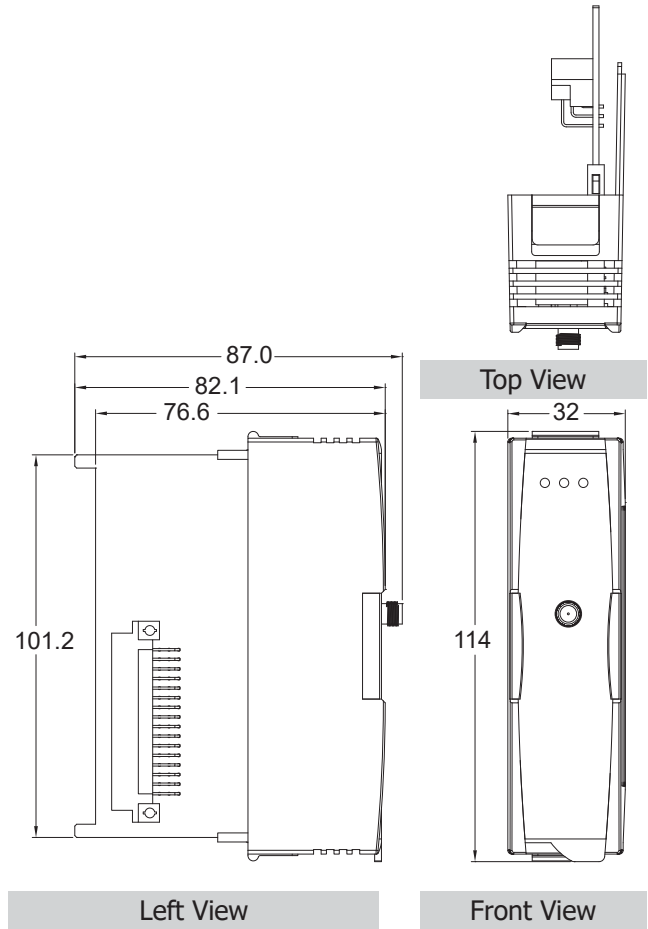## System Specifications

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

i-8211W

LED Indicators
🟢 GPS　⚪ N/A　🔴 PWR

| GPS Antenna |

GPS

📁 Dimensions (Units: mm)

Top View

87.0
82.1
76.6
101.2

Left View

32
114

Front View

📁 Ordering Information

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

I-8211W