

Mobility Sound

全笙科技有限公司

GPSD-K2 GPS Dongle for Kenwood Nextedge

User's Manual



GPS Dongle for Digital Radio

Compatible with Kenwood Fleetsync Software
No extra power need

GPS Dongle Specification

Receiver type	Channels	50
	Frequency	L1
Configuration	Signals	GPS C/A Code
	Time pulse	0.25 Hz to 1 kHz
	Navigation update rate	up to 5Hz (ROM)
Time-To-First-Fix(1)		
	Cold Start (Autonomous)	28 s
	Warm Start (Autonomous)	28 s
	Hot Start (Autonomous)	1 s
	Aided Starts(2)	1 s
Sensitivity(3)		
	Tracking & Navigation	-160 dBm
	Reacquisition	-160 dBm
	Cold Start (Autonomous)	-147 dBm
Accuracy	Horizontal position(4)	< 2.5 m Autonomous
		< 2.0 m SBAS
	RMS 99%	30 ns <60 ns
	Velocity(5)	0.1m/s
	Heading(5)	0.5 degrees
Limits	Acceleration	4 g
	Altitude(6)	50000 m
	Velocity(6)	500 m/s

Note:

1. All satellites at -130 dBm
2. Dependent on aiding data connection speed and latency
3. Demonstrated with a good active antenna
4. CEP, 50%, 24 hours static, -130dBm, SEP: <3.5m
5. 50% @ 30 m/s
6. Assuming Airborne <4g platform

Nextedge NX-200 Transmission Side

The radio must be programmed DC 5V power output when radio is ON

KPG-111D [NX-200 [Portable]: K VHF : 136-174 MHz] [Data File : NX200 GPS with Pin-11 +5VDC-1227 GPS-T.dat] [Source File : kpg111d.sdt]

File Model Edit Program Tools Setup View Window Help

Zone Information

Optional Features 1

Optional Features 2

Zone Name: HJIB A Free Area = 19840 bytes

Ch	RX Freq	DTMF	2-tone	FleetSync	MDC-1200	NXDN	Network	Encryption	Special Alert Tone	Emergency Information	Extended Function	Display Customization	Test Frequency	Embedded Message	Embedded Message with Password
1	172														
2	172														
3	172														
4	172														
5	171														
6	171														
7	151														
8	151														
9	151														
10	151														
11	151														
12	151														
13															
14															
15															
16															
17															

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KPG-111D [NX-200 [Portable]: K VHF : 136-174 MHz] [Data File : NX200 GPS with Pin-11 +5VDC-1227 GPS-T.dat] [Source File : kpg111d.sdt]

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Optional Features 1

Common Page 1 | Common Page 2 | Common Page 3 | Common Page 4

Battery

Battery Saver: Off

Battery Indicator: LCD & LED

Battery Warning: Always

☒ Battery Warning Tone

LEDs

☒ Transmit LED

☒ Busy LED

COM port Priority: Serial Data

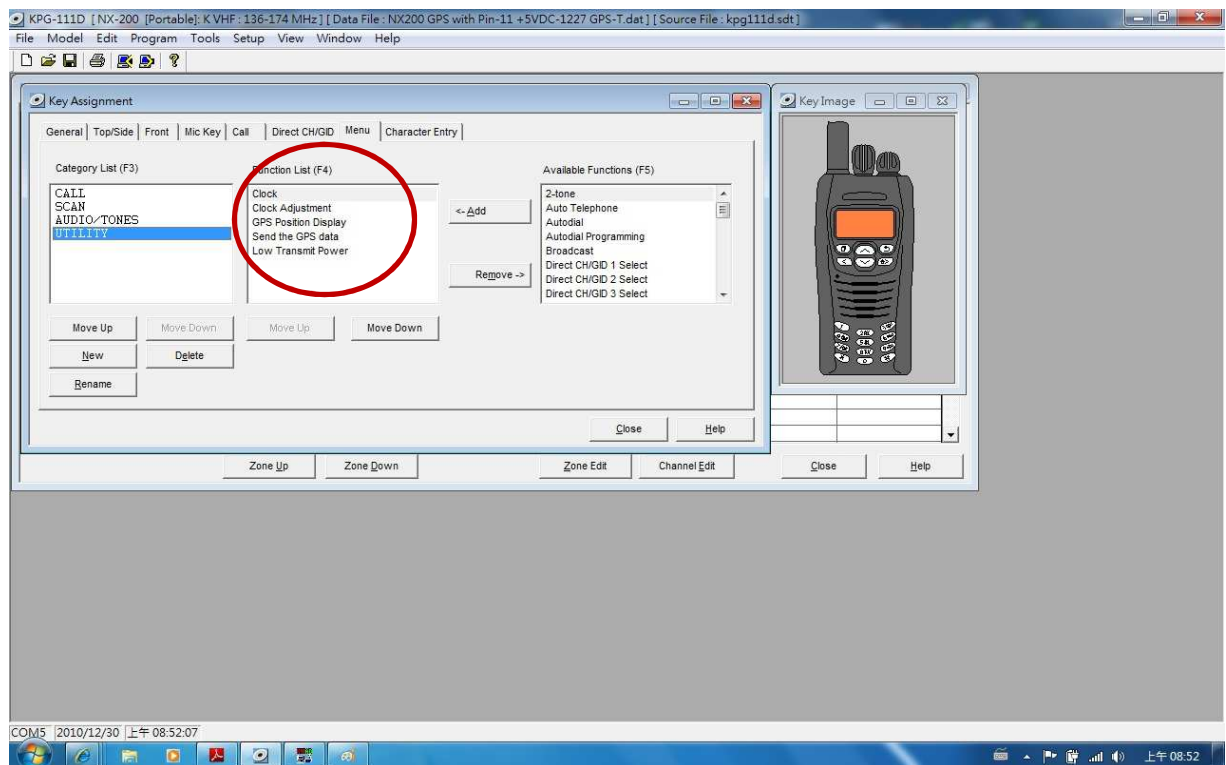
PC Interface Protocol: Version 2

COM port Number	Function	Polarity	Stop Bit	Baud Rate
COM port 0	GPS	Normal	1	9600
COM port 1				
COM port 2				

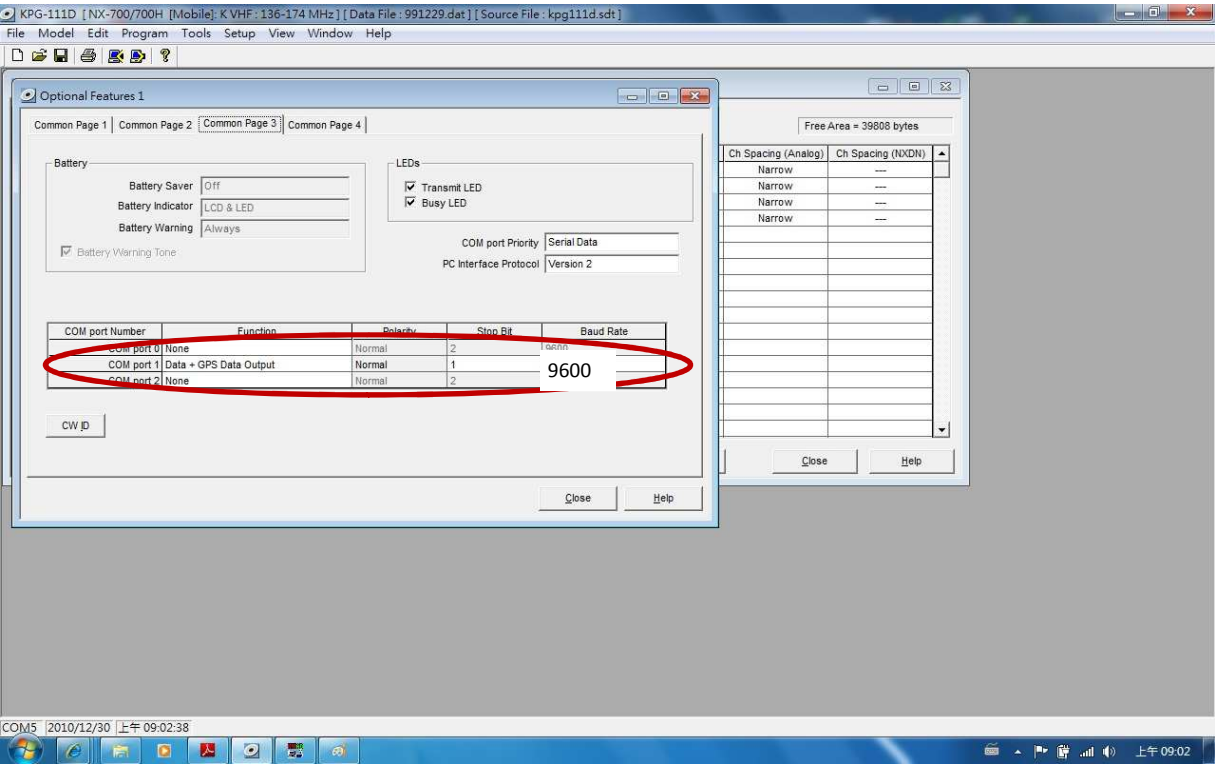
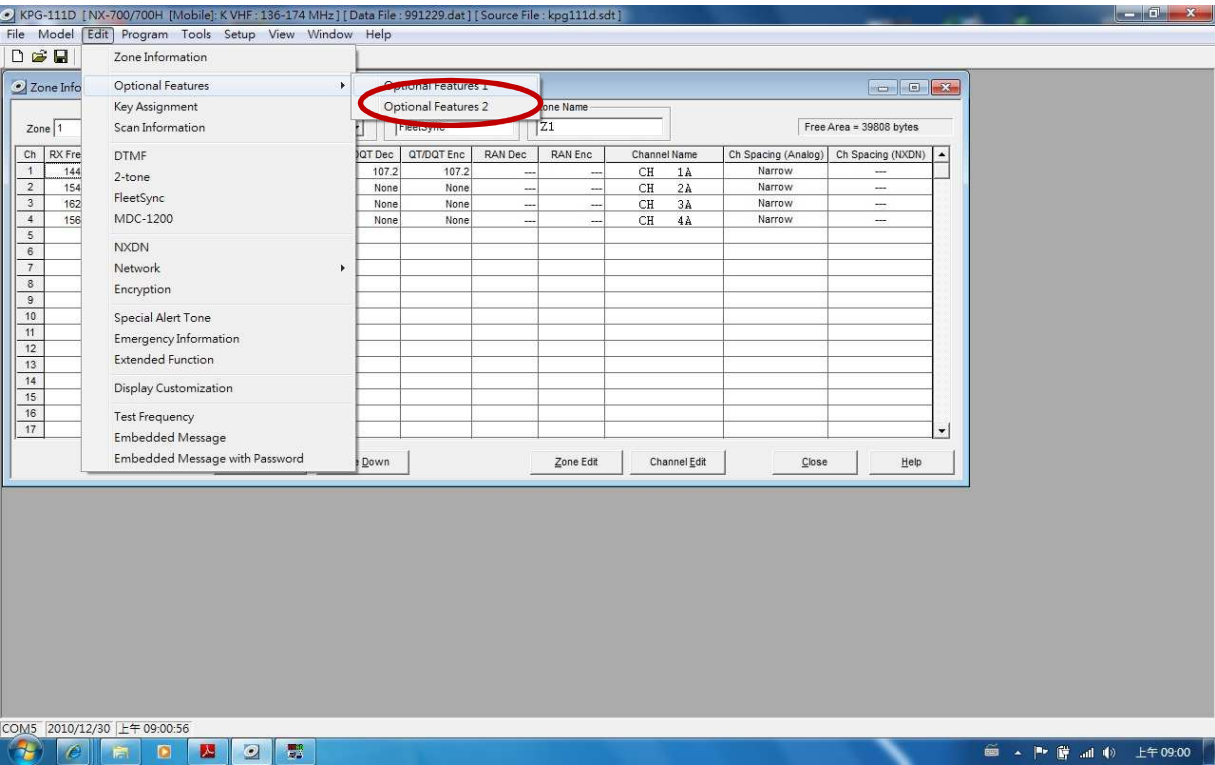
CW p

Close Help

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Nextedge NX-700 Receiver Side



Kenwood NX-700 RS-232 to computer wiring

