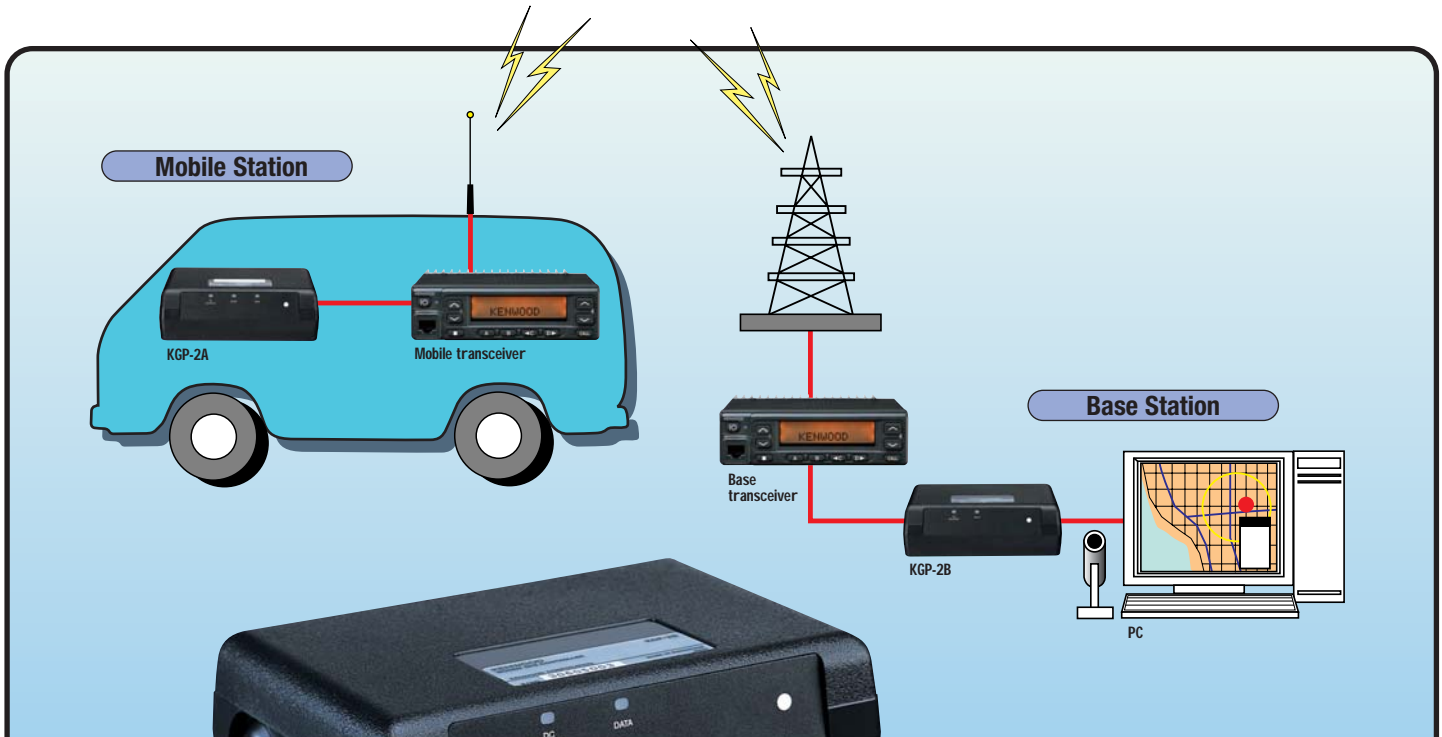


KENWOOD

KGP-2A/KGP-2B

GPS Receiver-Modem & Controller-Modem



KGP-2B •
GPS Controller-Modem

KGP-2A •
GPS Receiver-Modem

The KGP-2A GPS receiver-modem unit and KGP-2B GPS controller-modem unit from Kenwood offer a cost-effective way to implement a GPS AVL (Global Positioning System – Automatic Vehicle Location) solution* into any two-way system. AVL offers efficient dispatch management of taxi, delivery and service vehicles, plus enhanced security with advanced monitoring and control capabilities.

*The KGP-2A/B units require a KGP-2A/B compatible AVL/dispatch software running on a base/control station computer. The Global Positioning System (GPS) constellation of satellites is operated by the U.S. government, which is solely responsible for its accuracy and maintenance. The system is subject to change without notice which could affect the accuracy and performance of all GPS equipment.

Mobile Station

Compact Lightweight Design

Measuring just 5.51 x 1.81 x 3.94 inches (W x H x D) and weighing 1.01 pounds, the KGP-2A can be easily installed in any vehicle.

Multi-purpose Programmable I/O's

Each KGP-2A has sixteen programmable I/O's for either an analog "input" or output" (available at external connectors ACC2 (DB-9) & ACC-3 (DB-15)). The inputs are useful for vehicular sensors, switches, contacts, etc. and generate a report to the KGP-2B base unit each time the status changes*. The outputs can be used to trigger external relays and controls*. A KGP-2B base unit can be commanded by a control/base station computer running a KGP-2A/2B AVL dispatcher application to activate/deactivate KGP-2A fleet unit outputs and/or poll current input/output status.

* Requires additional circuitry and added parts; also requires a KGP-2A/B compatible AVL/dispatch software capable of utilizing these I/O's.

MIL-STD Environmental Standards

Compliance with MIL-STD 810 C/D/E environmental standards for resistance to dust, vibration and shock ensures stable performance even in demanding conditions.

DSP Modem

The receiver features a modern DSP-type modem (Digital Signal Processor) capable of 1200/2400 bps data communications.

LED Status Indicators

LEDs provide a quick troubleshooting indicator to confirm DC power, data communications with the connected mobile radio or if a GPS signal is being received.

Flash Memory

Flash memory permits uploading KGP-2A/2B unit firmware upgrades with a computer.

Control

The KGP-2A/2B air protocol commands permit a KGP-2B base unit to request any KGP-2A fleet unit to send any currently stored data or mobile station settings. AVL mapping / dispatch CAD software developers are provided with these commands and all protocol information to utilize in their products.



KGP-2A GPS RECEIVER-MODEM

rear panel

Main Data TX Commands

► Single Call ► Multiple Call ► Group Call ► Auto Data TX Request ► District Call ► Emergency ► Input Data Request (I/O input ports; contact closures, sensors, etc.)

Main Mobile Station Settings

► Outputs Data Request (I/O ports outputs) ► GPS Data

Base Station

Compact Lightweight Design

Measuring just 5.51 x 1.81 x 3.94 inches (W x H x D) and weighing 0.93 pounds, the KGP-2B can be easily installed out of the way base installation.

MIL-STD Environmental Standards

Compliance with MIL-STD 810 C/D/E environmental standards for resistance to dust, vibration and shock ensures stable performance even in demanding conditions.

DSP Modem

The receiver features a modern DSP-type modem (Digital Signal Processor) capable of 1200/2400 bps data communications.

LED Status Indicators

LEDs provide a quick troubleshooting indicator to confirm DC power, data communications with the connected mobile radio.

Flash Memory

Flash memory permits uploading KGP-2A/2B unit firmware upgrades with a computer.



KGP-2B GPS CONTROLLER-MODEM

rear panel

Options



KCT-40
Interface Cable
(for TK-7180/8180
7150/8150 mobiles)



KCT-34
Interface Cable
(for TK-780/880
980/981 mobiles)



KCT-35
Interface Cable
(for 60G/62G-Series mobiles)*



KCT-36
Extension Cable
(for KCT-34/35/40)

*160G/62G-Series Mobiles: TK-760G/762G/860G/862G/788G/868G/863G except for European models
Not all accessories may be available, please contact dealers for details.

Applicable MIL-STD

Military Standard	Method / Procedure 810C	Method / Procedure 810D	Method / Procedure 810E
Dust	510.1/Proc. 1	510.2/Proc. 1	510.3/Proc. 1
Vibration	514.2/Proc. 8,10	514.3/Proc. 1 Cat.8	514.4/Proc. 1 Cat.8
Shock	516.2/Proc. 1,2,5	516.3/Proc. 1,4	516.4/Proc. 1,4

Specifications

General Specification

Dimensions (W x H x D) without projections	5.51 x 1.81 x 3.94 in (140 x 46 x 100mm)
Weight: KGP-2A	1.01 lbs (460 g)
KGP-2B	0.93 lbs (420 g)

Standard Input Voltage (Input Voltage Range)	DC 13.6V negative ground (DC 10.0V to 15.7V)
--	--

Temperature Range	-22°F to +140°F (-30°C to +60°C)
-------------------	----------------------------------

Current Drain	< 300 mA (KGP-2A), < 240 mA (KGP-2B)
---------------	--------------------------------------

GPS Receiver Unit (applies to KGP-2A only)

Receiver Type	Parallel 9 channels
---------------	---------------------

Receiver Frequency	1,575.42 MHz
--------------------	--------------

Supply Voltage to Antenna	DC 3.3V ± 0.2 V
---------------------------	-----------------

GPS Backup Term	More than 2 month (fully charged)
-----------------	-----------------------------------

Modem

Modulation	Minimum shift keying (MSK)
------------	----------------------------

Modulation Rate	1,200 / 2,400 bps
-----------------	-------------------

Modem Encode Level Range	100 ~ 1,000 mVrms
--------------------------	-------------------

Modem Decode Level Range	100 ~ 1,000 mVrms
--------------------------	-------------------

Input Impedance	600 Ω
-----------------	-------

Output Impedance	600 Ω
------------------	-------

Kenwood follows the policy of continuous advancement in development.
For this reason specifications may be changed without notice.

KENWOOD

Kenwood U.S.A. Corporation
Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

