

ET-GPS START KIT V2

(P-ET-A-00481)

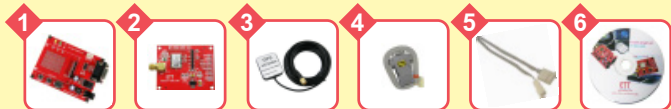


ET-GPS START KIT V2 is instant board that is used to receive Signal GPS for positioning the preferable location on the earth from satellite that moves around the earth. This instant board consists of Board START KIT, ET-MINI GPS and GPS ANTENNA; it is more convenient to interface with Control Boards for various applications such as positioning location on the earth or be used as the standard values for systems that require high accuracy.

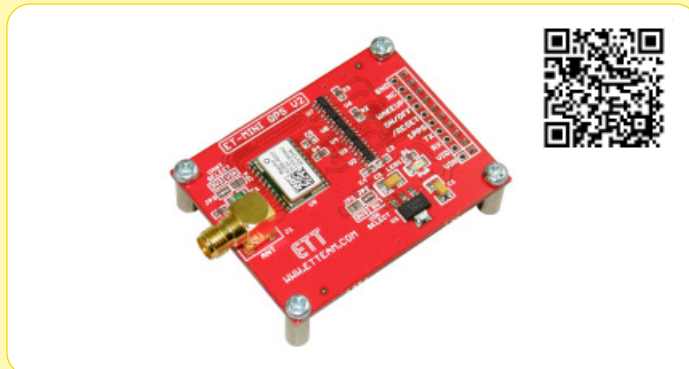
ET-GPS START KIT V2 in the part of GPS MODULE, it uses the wellknown CHIPSET model SiRF Star IV that has high sensitivity to receive signal from satellite; so, it can detect signal from satellite quickly.

Specifications of ET-GPS START KIT V2

- In the part of ET-MINI GPS V2 on board, it uses MODULE GPS model A2200-A from MAESTRO Company that uses CHIPSET SiRF Star IV
 - Support 48-CH GPS; so, it can detect signal from satellite quickly
 - Update Rate: 1 Hz/ 5 Hz Supported
 - Support Protocol NMEA0183 VER 3.0
 - 3 LED to display state of 1PPS, WAKEUP, PWR
 - 2 SW RESET, ON/OFF
 - Provide GPS ANTENNA GPS-GAA1575A as ACTIVE ANTENNA as MAGNETIC MOUNT with 5 meters in length
 - RS232 Communication 4800 bps, 8 DATA, NO PARITY, 1 STOP BIT (Default value)
 - RS232 Connecting point of DB9 PIN FEMALE and Connector 4 PIN WAFER (2.54 mm.) according to ETT Standard to interface with computer or Controller Boards
 - POWER SUPPLY 7-12V for board in the format of MAIL JACK 2.5mm. It is compatible with both AC and DC (be compatible with ET-SWITCHING ADAPTER 12V 0.5A TYPE J (OPTION))
 - PCB size: 9.15 x 6.85 cm.
 - **ET-GPS START KIT V2** includes...
1. Board ET-GPS START KIT
 2. Board ET-MINI GPS V2
 3. GPS ANTENNA
 4. Cable RS232 4 PIN
 5. Cable RS232 4 PIN Header
 6. CD-ROM User's Manual and Additional Program

**ET-MINI GPS V2**

(P-ET-A-00480)



This Board ET-MINI GPS V2 only has MODULE GPS and IC REGULATORS, IC LEVEL SHIFTER; it is suitable for customer who requires making MODULE GPS to assemble board by self; or, customer who requires interfacing Board GPS for testing by self.

Specifications of ET-MINI GPS V2

- Use MODULE GPS model A2200-A from MAESTRO Company that uses CHIPSET SiRF Star IV
 - Support 48-CH GPS
 - CAPABLE OF SBASE (WAAS, EGNOS, MSAS, GAGAN)
 - Time to First Fix: Hot Start <1s: Warm Start <35s: Cold Start <35s
 - Sensitivity Tracking: -163 dBm
 - Position Accuracy (horizontal): <2.5m CEP (autonomous)
 - Use UART Communication (TTL LEVEL) 4800 bps, 8 DATA BIT, NO PARITY, 1 STOP BIT (Default value) (Switchable 1,200 to 115.2k)
 - Has Circuit LEVEL SHIFTER to interface with Circuit that has LOGIC 1.8V-5V
 - Has 10 PIN HEADER to interface with external device
 - Connector ACTIVE ANTENNA as SMA RIGHT ANGLE FEMALE
 - POWER SUPPLY interfaces with DC 3.3V or 5V
 - PCB size: 4.40 x 5.60 cm.
 - **ET-MINI GPS V2** includes...
1. Board MINI GPS
 2. CD-ROM User's Manual and additional Program

**GPS ANTENNA**

(A-IC-M-00027)



This is an antenna is 5 meters in length for GPS device in the format of ACTIVE ANTENNA 3.3V as MAGNETIC MOUNT. The connector is SMA MALE.

**ANTENNA SPECIFICATION**

CENTER FREQUENCY	: 1575.42 MHz +/- 3 MHz
IMPEDENCE	: 50 OHM
PEAK GAIN	: > 3 dBic
LNA GAIN	: 27 dB
DC VOLTAGE	: 3.3 V +/- 0.5 V
DC CURRENT	: 15 mA MAX
WEIGHT	: < 100 GRAM
SIZE	: 47 x 34 x 14 mm.
CABLE	: 3 M
CONNECTOR	: SMA MALE STRAIGHT
MOUNTING	: MAGNETIC BASE