

APPLICANT: Payment Guardian Inc.

FCC ID: XG2GPSG01

The theory of GPS Guardian:

1. CPU: responsible for communication with outside interface, responses the message through GPS

module. Main frequency is 8MHz.

2. GPS module: responsible for receive information from satellite to sure the position.

Main

frequency is 8MHz

3. Power circuit: To provide steady power to around circuit

4. LED display: Display current state of GPS Guardian.

5. the Antenna is connect to the PCB.

The Connection: the GPS are equipped with 1metre length RS 232 USB cable with one mini USB and one USB Port, one USB port connected to home charger, car charger and PC for batter charge use and one mini USB port connected to EUT.

Please see the next page for USB cable explanation.

## USB Type A Male / Mini-B Male Cable, 5 Pin, Black, 3 ft

28/24AWG USB Shielded High Speed Cable 2.0 Revision 28AWG/1P+24AWG/2C AWM 2725 80c 30V VW-1



This is a male to male USB 2.0 cable with one A-type connection and one Mini-B-type. Type A is typically the style of connection found on the backs of PCs. Type mini-B is the smaller connector typically found on smaller devices such as digital cameras. USB 2.0 cables are backwards compatible as they can carry a USB 1.0 and 1.1 signal. USB cables are used to connect devices such as digital cameras, digital video cameras, scanners, printers, web cams, mice, keyboards, joysticks, network connections, etc.

### Specifications

<i>Electrical Characteristics</i>	
<i>Rate Voltage</i>	AC 5V(rms)
<i>Rate Current</i>	1A
<i>Withstanding Voltage</i>	AC 100V (rms) 1 minute
<i>Insulation Resistance</i>	100M@ min. (at 500V DC)
<i>Contact Resistance</i>	500m@ max.
<i>Propagation Delay</i>	26ns max.
<i>Skew</i>	100pS max.
<i>Character Impedance</i>	90@ +-15%
<i>Mechanical Characteristics</i>	
<i>Total Insertion Force</i>	35 Newtons
<i>Total Withdrawal Force</i>	3 Newtons
<i>Life (Mating cycle)</i>	5,000

### Cable Specifications

<i>Conductor</i>	24Awg (11/0.08) *4C
<i>Filler</i>	Fiber 250D*2
<i>AI/Mylar</i>	Overlap 25%
<i>Braid Copper</i>	85% 16/5/0.08TA
<i>Color</i>	Black;PMS 426C
<i>O.D.</i>	2.8+-0.10mm