

EIO100 User Guide **Expander Input/Output**

ACCEEIO100UG001

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Product Model



International Telematics Solutions Innovator

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0. Revision history

Revision	Date	Author	Description of change
1.00	2014-10-30	Bingo Huang	Initial
1.01	2015-05-06	Bingo Huang	Add Interface Specification in 2.1
1.02	2015-12-25	Bingo Huang	Updated 3.2, changed the connect description

1. Introduction

The EIO100 is an expander for input and output. It has four digital inputs and four digital outputs. And can connect with Track Device through UART or 1-Wire.

2. Product Overview

2.1. Interface Definition

The EIO100 has a 15 PIN interface connector. It contains the connections for power, I/O, RS232 and 1-wire. The sequence and definition of the 15PIN connector are shown in the following figure:



Figure 1. The 15 PIN Connector on the EIO100

Table 1. Description of 15 PIN Connections

OUTPUT PIN

Color	Definition	Specification
White	Output 9	Open Drain output, 750mA MAX
Black	Output A	Open Drain output, 750mA MAX
Yellow	Output B	Open Drain output, 750mA MAX
Red	Output C	Open Drain output, 750mA MAX

INPUT PIN (the cable with red ring)

Color	Definition	Specification
Red	Input 9	Digital Input
Yellow	Input A	Digital Input
White	Input B	Digital Input
Black	Input C	Digital Input

POWER PIN

Color	Definition	Specification
Red	PWR	8~32V Input
Black	GND	

RS232-1WIRE PIN

Color	Definition	Specification
White	232_RXD	RS232 Level
Yellow	232_TXD	RS232 Level
Black	GND	
Red	VCC_5V	5V Output
Green	one-wire	

3. Get Started

3.1. Power Connection

PWR /GND are the power input pins. The input voltage range for this device is from 8V to 32V. The device is designed to be installed in vehicles that operate on 12V or 24V systems without the need for external transformers.

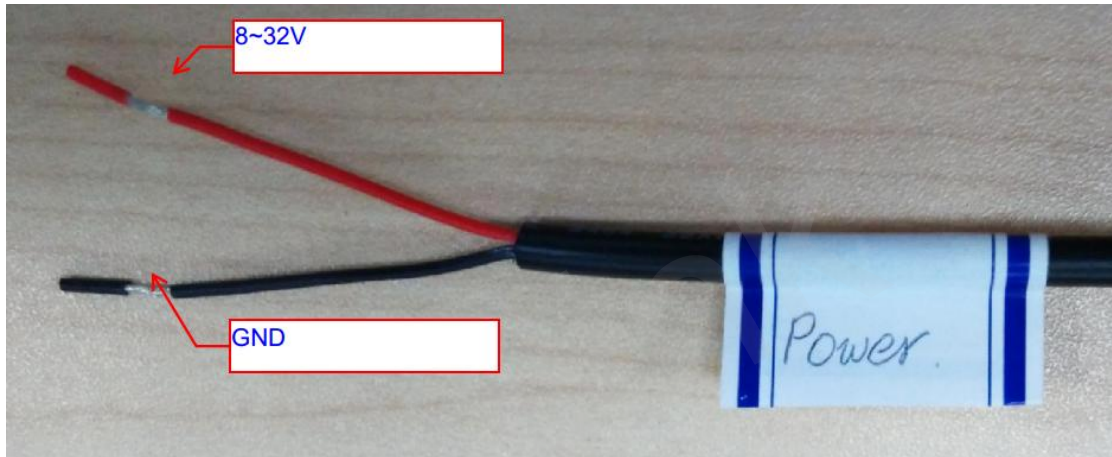


Figure 2. Typical Power Connection

3.2. Connect with GV300

EIO100 connects with GV300 through 3 wires ---TXD, RXD and GND.

EIO100 RXD connects GV300 RXD, EIO100 TXD connects GV300 TXD, and EIO100 GND connects GV300 GND.

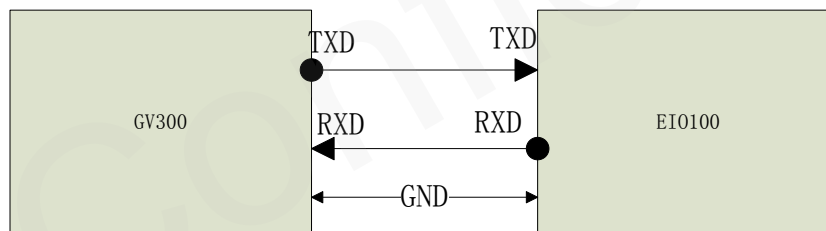


Figure 3. Connect with GV300

4. Message Format and Operation

Reference GVxxx @Track Air Interface Protocol.