

TTL-ETH

TTL Serial to Ethernet Adapter



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Disclaimer and Revisions

Operation of this equipment in a residential area is likely to cause interference in which case the user, at his or her own expense, will be required to take whatever measures may be required to correct the interference.

Attention: This product has been designed to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with this guide, may cause harmful interference to radio communications.

Changes or modifications to this device not explicitly approved by Grid Connect will void the user's authority to operate this device.

The information in this guide may change without notice. The manufacturer assumes no responsibility for any errors that may appear in this guide.

Date	Rev.	Author	Comments
02/10/06	A	GR	Preliminary Release

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1. Overview

The TTL-ETH connects TTL level serial devices to Ethernet networks using the IP protocol family. The TTL-ETH belongs to the NET232 family of device servers and is designed to interface to TTL level serial devices. The information in this guide is relevant to TTL-ETH devices with firmware version 1.8 and higher. The TTL-ETH device contains an XPort-03 device server.

This manual covers the differences between the standard NET232 device server and the TTL-ETH device server. The basic difference is the NET232 has an RS232 serial interface and the TTL-ETH has a TTL serial interface. For additional information, see the NET232 User Manual and other documents supplied on the software CD.



2. Introduction

2.1 Serial TTL Interface

The table below lists the TTL signals for the TTL-ETH. The TTL interface is a 9-pin Male D-style connector. In this configuration, the unit is a **DTE device**.

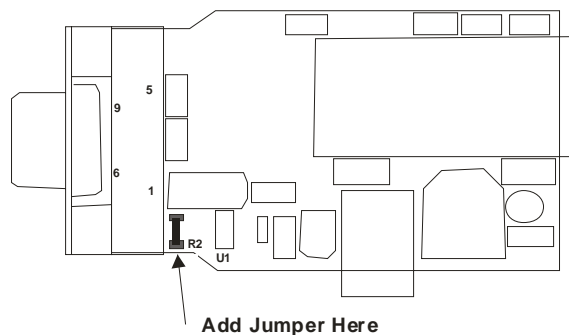
Table 1 - TTL Signals

NET232-TTL Signal	Direction	DTE DB-9 Male Pin #
Data Out (TXD)	Out	4
Data In (RXD)	In	5
Ground		2
CTS To CP1 or CP2	Out	9
RTS To CP3	In	3
Power		1 *

Note: RTS and CTS control lines are not enabled at the factory. See Port Properties and Flow in the NET232 User Manual. You must also configure the OEM Configurable Pins as described in the Device Installer manual.

Power is supplied to the TTL-ETH through an external power source connected to the power jack on the side of the unit. Power can also be supplied through Pin 1 on the DB-9 Male connector.

Note: Power can be supplied through Pin 1 if you install a jumper across the pads marked R2. This jumper is NOT installed at the factory. These units can be supplied without the power jack on the side of the unit. Contact the Grid Connect Sales Department for pricing and delivery. OEM units may have this jumper already installed.



Grid Connect can supply you with a RS-232 to TTL adapter so you can use this device with standard RS-232 signals. The adapter can also be used to configure the TTL-ETH with a serial port from your laptop or PC.

