

TTL to RS232 Adapter User Guide

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Disclaimer and Revisions

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
01/09/06	A	GR	Preliminary Release
02/23/07	B	GR	Change C6, C7 to 35V. Input range now 5-24VDC.
04/16/07	C	GR	Remove note. Add cable drawing.

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1. Introduction

The TTL-RS232 Adapter is used to connect TTL level signals to an RS-232 interface. The TTL side is a 9-pin female connector and the RS-232 side is a 9-pin male connector. The unit can be powered through one of the connector pins or through the side mounted power jack (optional).

The TTL side has a voltage suppression network designed to protect against ESD and EFT.

The unit can be powered by supplying **5-24VDC** on pin 5 of the TTL connector.

WARNING: The power is passed through to pin 4 of the RS232 connector. The pass through option can be disabled by removing R2.

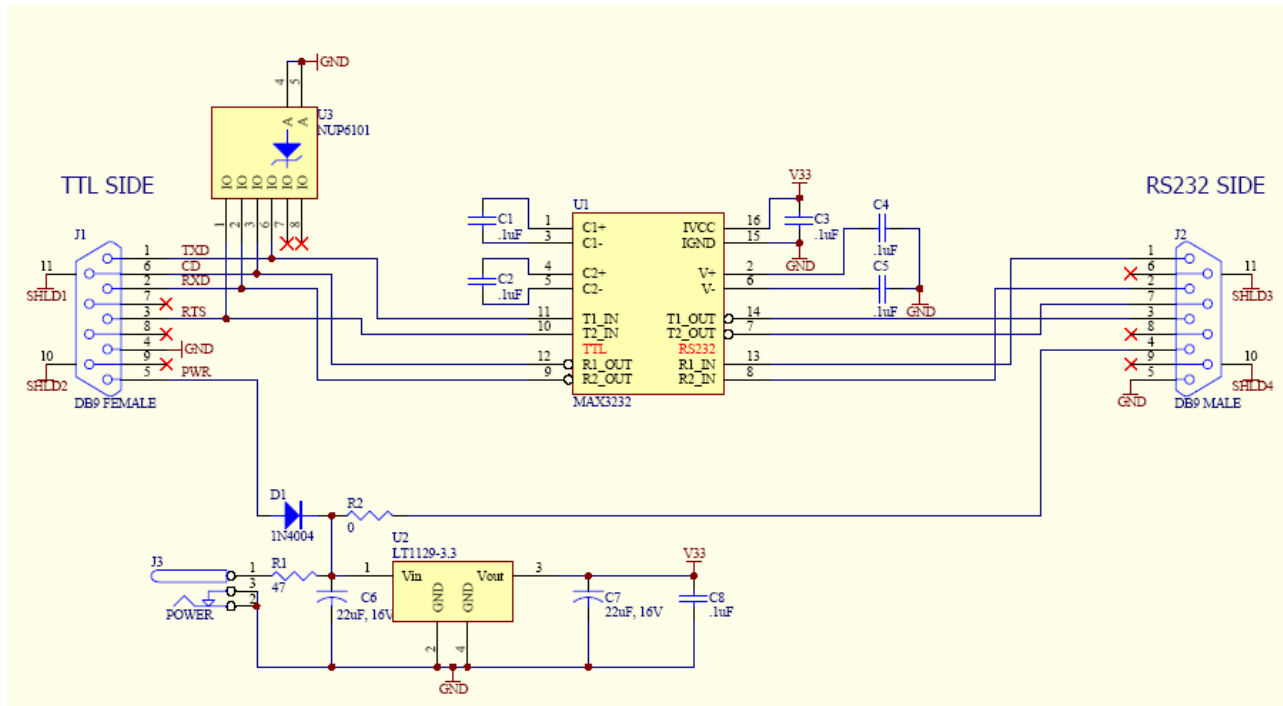
This unit can be powered by a **5-24VDC** power supply through an optional side mounted power jack.

2. Connections

TTL Signal Pin	Signal Name	RS232 Signal Pin
1 (Input)	TXD	3 (Output)
2 (Output)	RXD	2 (Input)
3 (Input)	RTS	7 (Output)
4	Ground	5
5	PWR	4 (See Note)
6 (Output)	CD	1 (Input)
7, 8, 9	No Connection	
		6, 8, 9

WARNING: Power from the external power supply is connected to pin 4 of the RS232 connector by an internal jumper R2. Remove R2 if you do not want power on RS232 connector pin 4.

3. Schematic



Note: C6 and C7 are 35VDC.

Grid Connect has a TTL to Ethernet product that has a TTL interface. The TTL-RS232 Adapter can be connected to the TTL-Ethernet Adapter so that an RS232 source can be used to setup and configure the TTL-ETH Adapter. The following cable diagram shows how to make a cable to connect a TTL-RS232 Adapter to a TTL-Ethernet Adapter.

Cable between TTL-232 and TTL-ETH

	DB9 Male		DB9 Female	
TO Female DB-9 on TTL-232 Adapter	TXD -1	—————	TXD -4	TO Male DB-9 on TTL-ETH Adapter
	RXD-2	—————	RXD-5	
	RTS-3	—————	RTS-9	
	GND-4	—————	GND-2	
	DCD-6	—————	DCD-3	

4. Technical Support

If you are experiencing a problem that is not described in this manual, please contact Grid Connect at (630) 245-1445.

Our phone lines are open from 8:00AM - 4:30 PM Central Time Monday through Friday excluding holidays.