Datasheet of

FT232RL USB RS485 Converter Cable

Model No.: SN-068540-1800

Cable Length: 1800mm

Chipset: FT232RL+SP485

Customer product code: 64090354

Description: INV, RS485 to USB Converter,

T485-LSLV

Product Picture:

By Shenzhen Sinforcon Electronics Ltd

Tel: 86-755-85236100 Fax: +86-755-82893356

Homepage: http://www.sinforcon.com

PART I   INTRODUCTION:

Sinforcon USB RS485 cable integrated FT232RL + SP485 chip. It offers a convenient and smallest solution to USB RS485 application. It offers a USB – RS485 half duplex communications channel. The drivers support Windows 7, XP/2000/98, Linux, etc.   At present, LED version is also available for indicating power and data transferring. The USB A male molding could be transparent or transparent black.

1.1   Cables features

The cable offers VCC(5v@100mA) from USB directly, GND, Data+(A), Data-(B), half-duplex, non-isolated, support 5km distance data transferring.

Features:

- USB2.0 compatible
- 1Mbps transferring speed
- Support auto-hands-shaking protocol
- USB powered, no external power required
- Support Windows95/98/2000/XP/CE/LINUX,etc
- FT232RL + SP485 chip
- Half-duplex, non-isolated
- Support Win 7, Win 8, Android, Mac, Linux, Win CE, etc.
- RoHS, CE compliance certificated.

1.2   Available cables:

USBRS485-wire end, 4 core

USB RS485 to RJ11, RJ12, RJ45, etc

USB RS485 –XLR 5P, 3P, etc

USB RS485 – audio jack
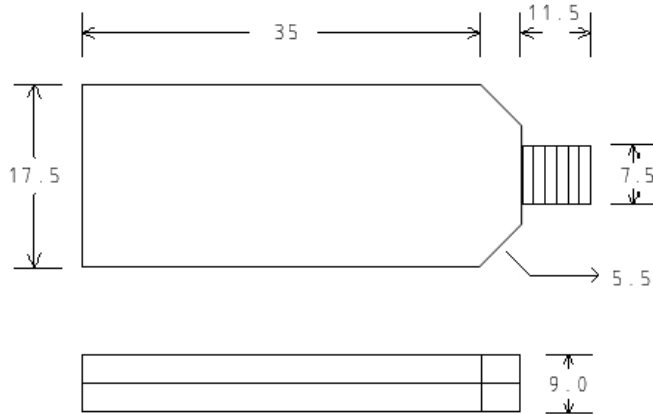
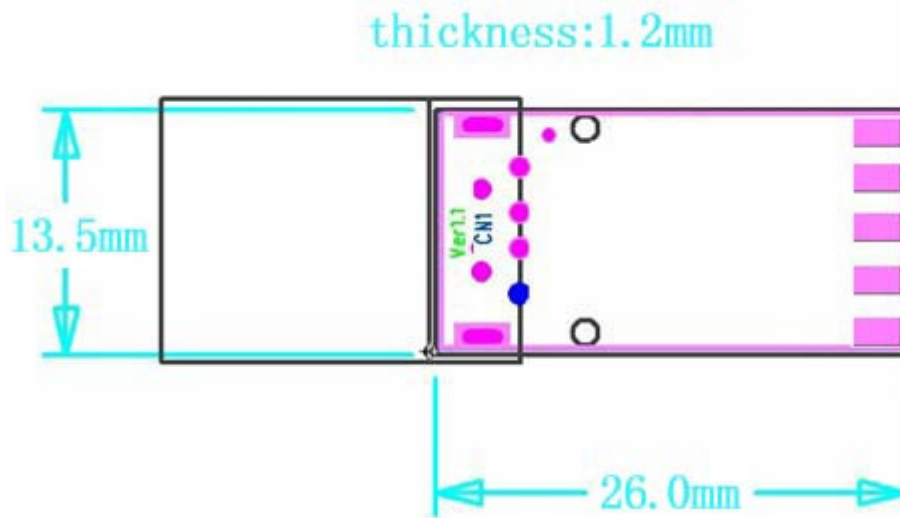USB RS485 – RJ45, shielded cable   USB RS485 converters
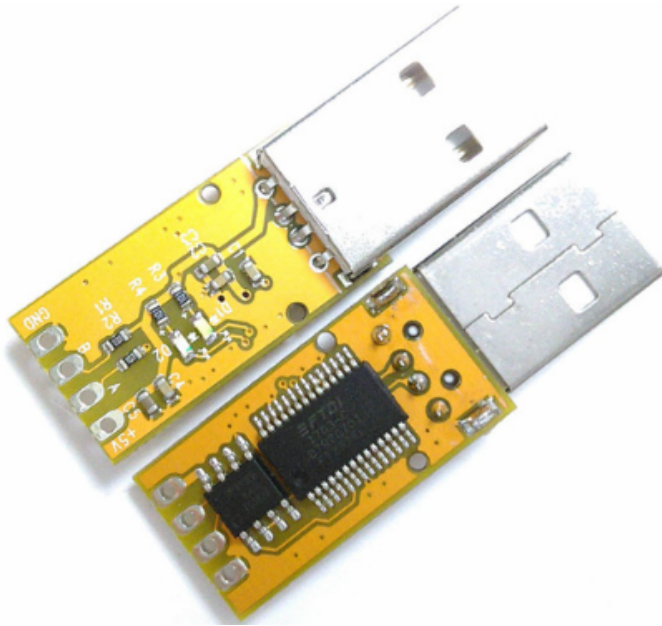

We also accept customized connectors.

1.3   USB AM dimension:

1.4.   Board size:

1.5   PCBA Overview:

1.6   Transparent housing and transparent RJ45 connector

1.7   Board Diagram

1.8   Cable Drawing

	ECN	REV	DESCRIPTION	DATE

1800±30

②⑤

③④⑥

①

RJ45

RJ45 8P8C Pin Assignment

Pin #1 - Data+	Pin #2 - NC
Pin #3 - NC	Pin #4 - NC
Pin #5 - NC	Pin #6 - NC
Pin #7 - GND	Pin #8 - Data-

NO	QTY	Unit	Description
6	1	PCS	ABS housing, ABS, transparent clear, RoHS
5	1	PCS	RJ45 protetion cover, black, RoHS
4	1	PCS	USB A male, gold plated contacts, nickel plated shell, RoHS
3	1	PCS	PCBA with FT232RA+SP485 RS485, 2 LEDs, yellow, RoHS
2	1	PCS	RJ45 male, 8p8c, gold plated contacts, transparent clear, RoHS
1	1	PCS	28AWG*4C BC, PVC jacket, OD3.8mm, black, L=1800mm

SCALE F

SHEET 1 OF 1   DIMENSION mm

DWG NO.   REV. A0

TOLERANCES ARE:
DECIMALES   ANGLES

APPROVALS   DATE
APPROVED:
CHECKED:
CHECKED:
DRAWN:

Title: USB RS485-RJ45 cable

P/N: SN-068540-1800   REV. A0

®Sinforcon Electronics
SINFORCON Tel:8675585236100 www.sinforcon.com

1.9   Label Info

Put a label on the USB housing, label info as following:

USB to RS485 + production date, black character on white background

USB to R485
1812   -

1.10   packing Info

A. Each cable packed in a polybag package as below, then in a white box. Put

a label on the white box, Label size: 24.5 x 59.5mm

USB to RS485 CONVERTER
MODEL: T485-LSLV
Manufacturer: Sinforcon
Supplier: LSIS
CODE: 64090354

B. 200 or 250pcs in a carton like as below, carton will be no any

marks and labels.

C. Put a user manual in each carton.

USER MANUAL

USB to RS232 Converter

- Model No.: SN-062345-1800
- Cable length: 1800mm
- Chipset: PL2303TA+ZT232
- Features:
    USB 2.0 standard, Non-isolated,
    Support Windows 7/8/8.1/10/
    Linux/Win CE
- RJ45 Pin Assignment

Pin No.1 - NC	Pin No.2 - NC
Pin No.3 - RXD	Pin No.4 - TXD
Pin No.5 - NC	Pin No.6 - NC
Pin No.7 - GND	Pin No.8 - NC

USB to RS485 Converter

- Model No.: SN-068540-1800
- Cable length: 1800mm
- Chipset: FT232RL+SP485
- Features:
    USB 2.0 standard, Non-isolated,
    Support Windows 7/8/8.1/10/
    Linux/Win CE
- RJ45 Pin Assignment

Pin No.1 - Data+	Pin No.2 - NC
Pin No.3 - NC	Pin No.4 - NC
Pin No.5 - NC	Pin No.6 - NC
Pin No.7 - GND	Pin No.8 - Data-

Driver download link:
1. USB to RS232 Converter
   http://www.prolific.com.tw/UserFiles/files/PL2303_Prolific_DriverInstaller_v1200.zip
2. USB to RS485 Converter
   https://www.ftdichip.com/Drivers/CDM/CDM21228_Setup.zip

Manufacturer: SHENZHEN SINFORCON ELECTRONICS LIMITED
Address: 204, 1ˢᵗ Building, Minle Industrial Park, Longhua, Shenzhen 518131, CHINA
Tel: +86-755-85236100
Fax: +86-755-82893356
E-mail: sales3@sinforcon.com
Website: www.sinforcon.com

After-sales service:
E-mail: sales@sinforcon.com

Warranty Period
The product warranty covers product malfunctions under normal operating conditions for 12 months
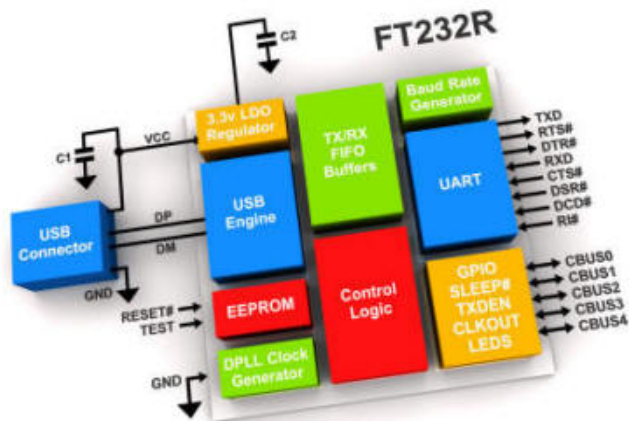from the date of installation.

Warranty Service Information
During the product warranty period, warranty service is provided for product malfunctions caused
under normal operating conditions. For warranty service, please contact the service agent.

D. Put cartons on the wooden pallet like as below.

PART II.　About FT232

　　　The FT232R is the latest device to be added to FTDI's range of USB UART interface Integrated Circuit Devices. The FT232R is a USB to serial UART interface with optional clock generator output, and the new FTDIChip-ID™ security dongle feature. In addition, asynchronous and synchronous bit bang interface modes are available. USB to serial designs using the FT232R have been further simplified by fully integrating the external EEPROM, clock circuit and USB resistors onto the device.

The FT232R adds two new functions compared with its predecessors, effectively making it a "3-in-1" chip for some application areas. The internally generated clock (6MHz, 12MHz, 24MHz, and 48MHz) can be brought out of the device and used to drive a microcontroller or external logic. A unique number (the FTDIChip-ID™) is burnt into the device during manufacture and is readable over USB, thus forming the basis of a security dongle which can be used to protect customer application software from being copied.

PART III　　About SP485LEEN

　　　The SP485 is the family of the half-duplex transceiver that meet the requirements of RS485 and RS422. Their BiCOMS design alls low power operation without sacrificing performance. SP485 meet the requirement of RS-485 and RS422 up to 5Mbps.

SP481, SP483, SP485
Pinout (Top View)
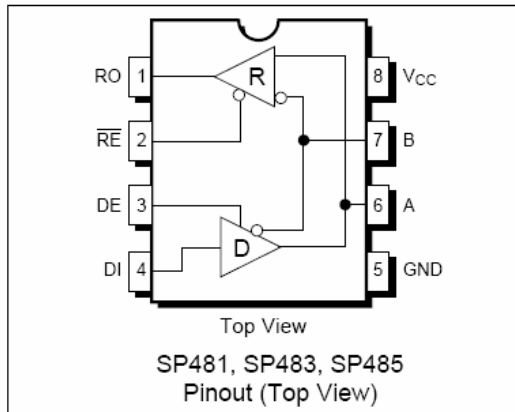
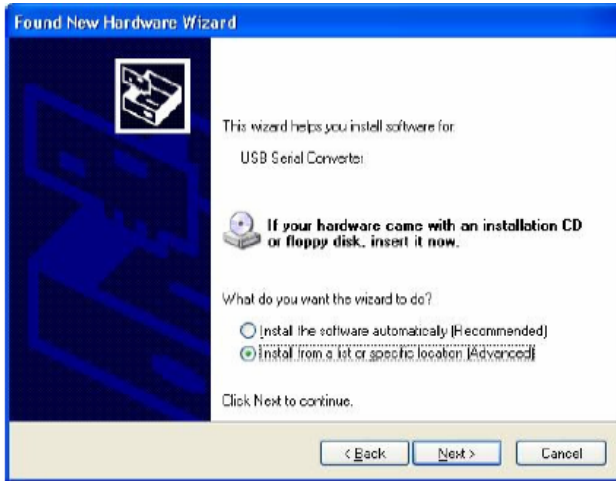Part IV   Driver Installation

Driver support

- ✧ Windows 98/98SE, ME, 2000, SEVER2003, XP and server 2008
- ✧ Windows 7 32, 64-bit
- ✧ Windows XP and XP 64-bit
- ✧ Windows Vista and Vista 64-bit
- ✧ Windows CE 4.2, 5.0 and 6.0
- ✧ Mac OS 8/9, OS-X
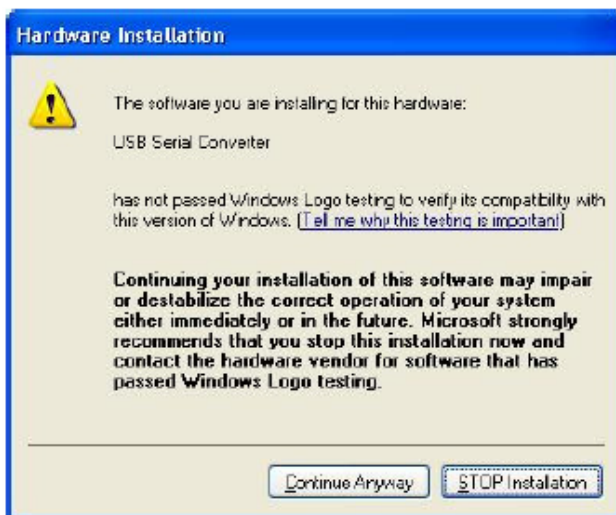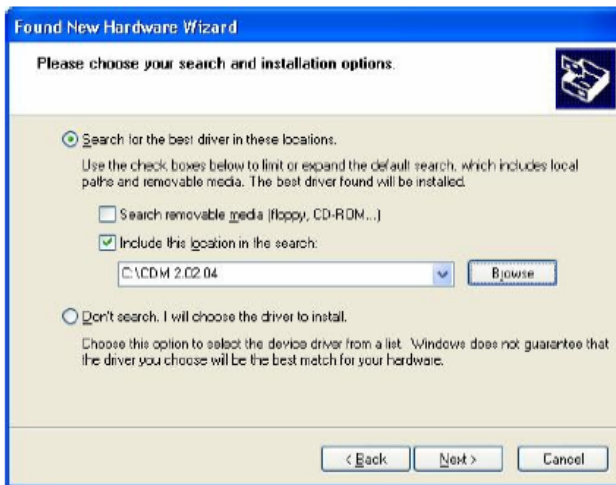- ✧ Linux 2.4 and greater

3.1 Found new hard ware

3.2 System requires installing new drivers
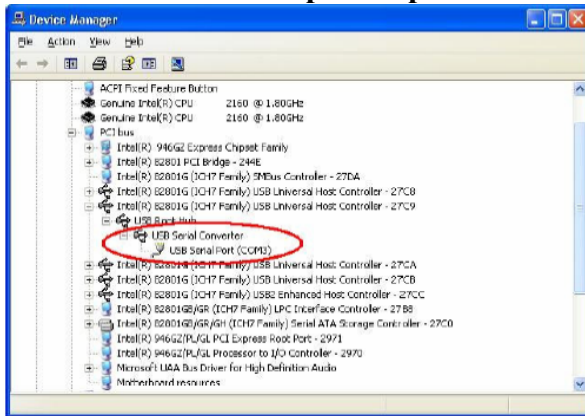
3.3. Enter the path of the drivers

3.4. Installing drivers

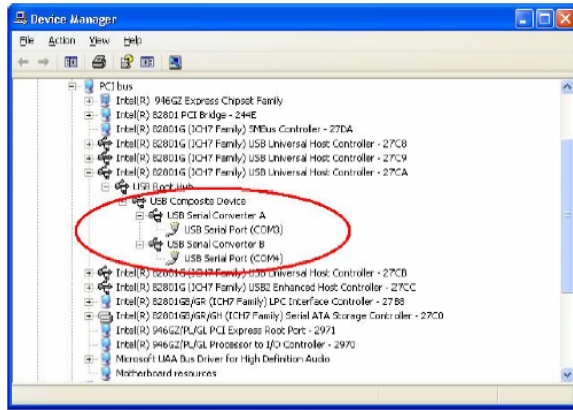### 3.5. Installing completed

3.6 Found USB Serial port in port list.

Driver Guide link:

http://www.sinforcon.com

The information is offered by Shenzhen Sinforcon Electronics Ltd, right reserved. For any inquiry or advise, please contact:
Tel: +86-755-85236100 Fax: +86-755-82893356
Email: sales@sinforcon.com