Manuals+ — User Manuals Simplified.

DELTA IFD6500, IFD6530 USB/RS-485 Communication Interface Instruction Manual

Contents

ΛELTΛ

DELTA IFD6500, IFD6530 USB/RS-485 Communication Interface
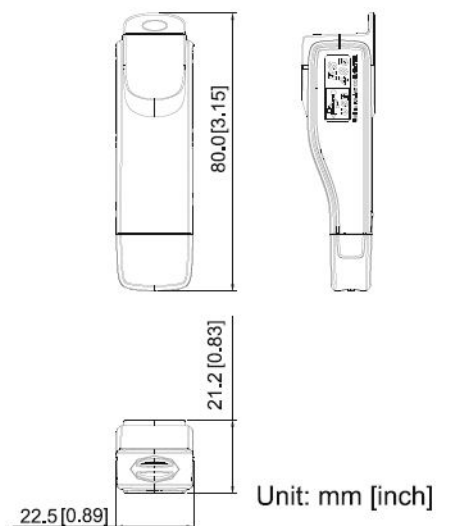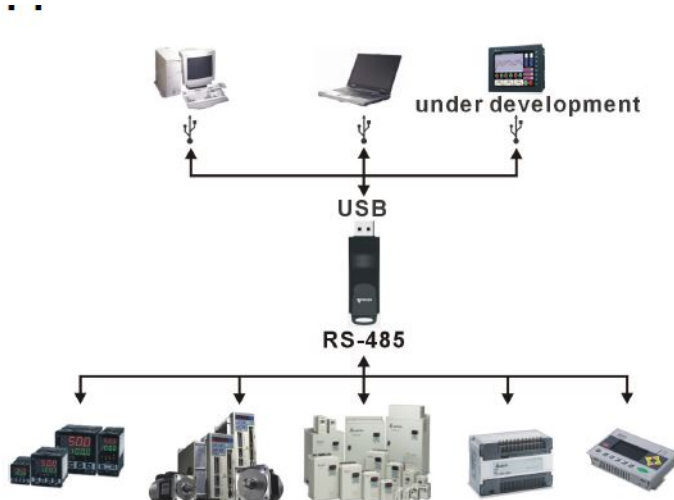
Introduction

IFD6500/IFD6530 is a convenient RS-485-to-USB converter, which does not require external power-supply or complex setting process. It supports baud rate from 75 to 115.2kbps and auto switching direction of data transmission. In addition, it adopts RJ-45 in RS-485 connector for users to wire conveniently. And its tiny dimension, handy use of plug-and-play and hot-swap provide more conveniences for connecting all DELTA IABU products to your PC. Applicable Models: All DELTA IABU products.

- Please thoroughly read this instruction sheet before installation and putting it into use.
- The content of this instruction sheet and the driver file may be revised without prior notice. Please consult our distributors or download the most updated instruction/driver version at **http://www.deltaww.com**

Application & Dimension

under development

USB

RS-485

80.0[3.15]

21.2[0.83]

22.5[0.89]

Unit: mm [inch]

Specifications

- Power supply
  - No external power is needed
- Power consumption
  - IFD6500: 0.4W IFD6530: 1.5W
- Isolated voltage
  - 2,500VDC
- Baud rate
  - 75, 150, 300, 600, 1,200, 2,400, 4,800, 9,600, 19,200, 38,400, 57,600, 115,200 bps
- RS-485 connector
  - RJ-45
- USB connector
  - A type (plug)
- Compatibility
  - Full compliance with USB V2.0 specification
- Max. cable length
  - RS-485 Communication Port: 100 m
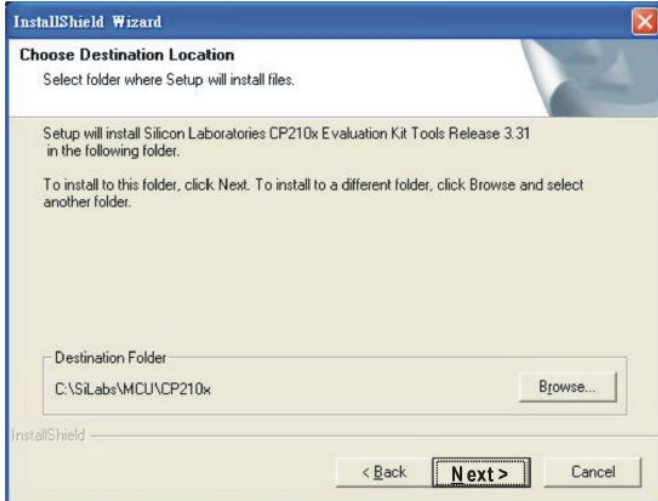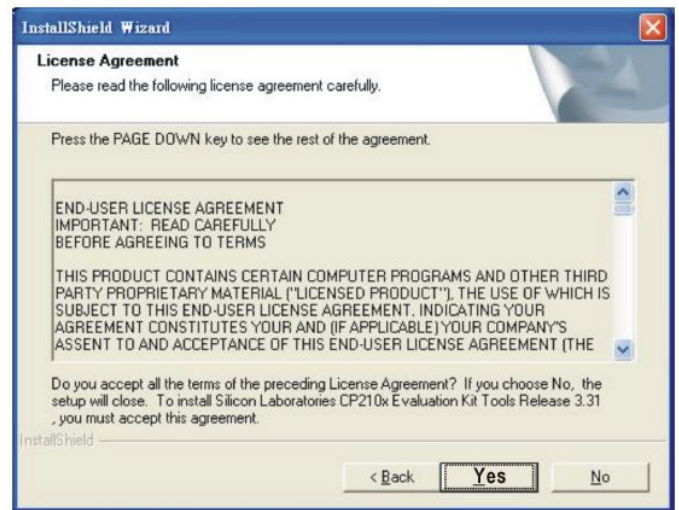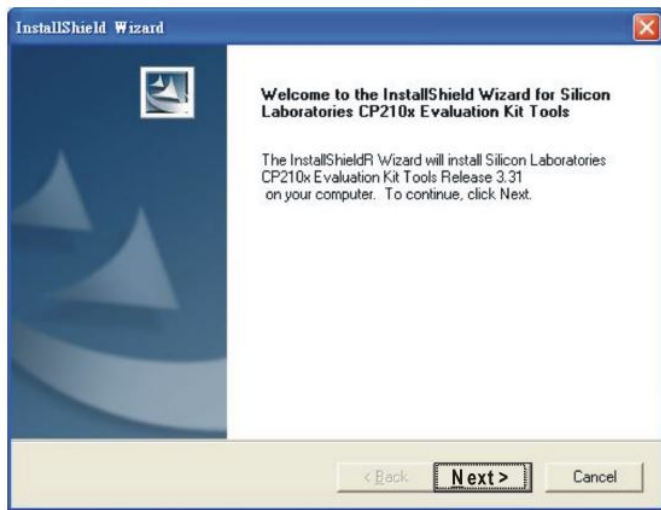- Support RS-485 half-duplex transmission

RJ-45

RJ-45

	IFD6500		IFD6530	
PIN	Description	PIN	Description	
1	Reserved	1	Reserved	
2	Reserved	2	Reserved	
3	Reserved	3	GND	
4	SG+	4	SG-	
5	SG-	5	SG+	
6	Reserved	6	GND	
7	Reserved	7	Reserved	
8	Reserved	8	+9V	

Preparations before Driver Installation

Download the USB driver from our official website
(**https://downloadcenter.deltaww.com/en-US/DownloadCenter**) and follow the steps below to extract it. **Note:** DO NOT connect IFD6500/IFD6530 to PC before extracting the driver file.
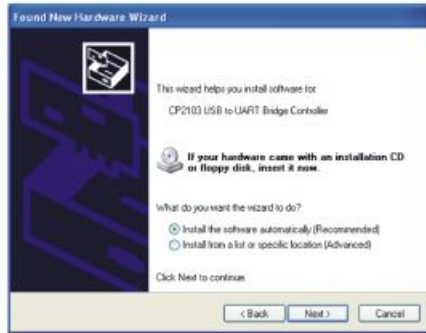
You should have a folder marked SiLabs under drive C.
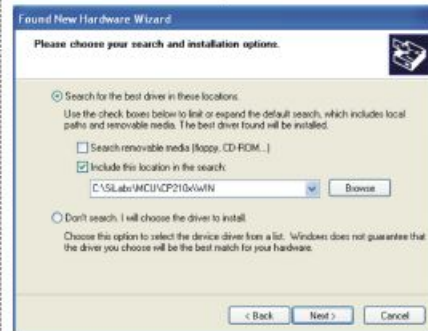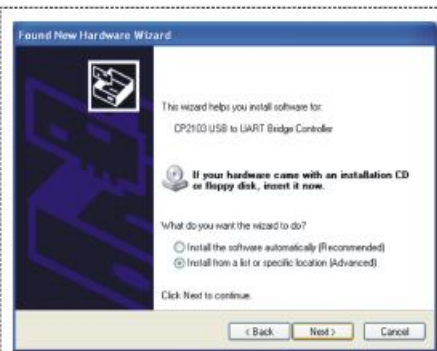
Driver Installation

After connecting IFD6500/IFD6530 to PC, please install driver by following steps.
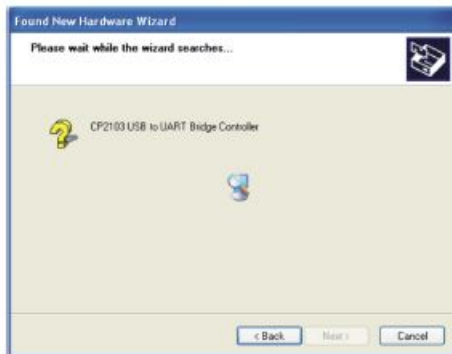
STEP 2

OR

Browse and select directory, or enter
C:\SiLabs\MCU\CP210x\WIN

STEP 3

STEP 4

STEP 5
Repeat Step 1 to Step 4 to complete
COM PORT setting.

LED Display

1. Steady Green LED ON: power is ON.
2. Blinking orange LED: data is transmitting.

- IFD6500/IFD6530 is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent non-maintenance staff from operating IFD6500/IFD6530 , or to prevent an accident from damaging IFD6500/IFD6530 , the control cabinet in which IFD6500/IFD6530 is installed should be equipped with a safeguard. For example, the control cabinet in which IFD6500/IFD6530 is installed can be unlocked with a special tool or key.
- DO NOT connect AC power to any of I/O terminals, otherwise serious damage may occur. Please check all wiring again before IFD6500/IFD6530 is powered up. After IFD6500/IFD6530 is disconnected, Do NOT touch

any terminals in a minute. Make sure that the ground terminal on IFD6500/IFD6530 is correctly grounded in order to prevent electromagnetic interference.

Documents / Resources

	DELTA IFD6500, IFD6530 USB/RS-485 Communication Interface [pdf] Instruction Manual IFD6500, IFD6530, USB RS-485 Communication Interface, IFD6500 IFD6530 USB RS-485 Communication Interface, IFD6500, IFD6530, USB Communication Interface, RS-485 Communication Interface, Communication Interface

References

- ▲ **Welcome to Delta**
- ▲ **-**
- ▲ **Delta | Download Center**
- ▲ **Delta | Download Center**