



## **INTRODUCTION**

Milestone model UD-35 is a USB to RS232 converter and is designed for high-speed data transmission between computer system through its USB port and peripherals or other devices having RS232 interface.

## **APPLICATIONS**

Application for these converters can be for factory automation, programmable logic controllers, attendance recording systems, Barcode Readers, remote data transmission, remote terminals, EPABX etc.

## **SPECIFICATIONS**

<b>Input</b>	USB 2.0 Compliant
<b>Output</b>	RS232 Interface (D9 Male Connector)
<b>Data Format Supported</b>	Data Bits: 8 Stop Bits: 1 Parity: Odd, Even, No parity Baud Rate: 300 bps to 921.6 Kbps X-On / X-Off handshake Protocol Receive Buffer: 512 Bytes Transmit Buffer: 512 Bytes
<b>Power Supply</b>	Through USB Port

## UD-35 KIT CONTENTS

The Converter kit contains

1. UD-35 Converter Box
2. ML-U485 Driver CD for installation. This contains the VIRTUAL COM Port Driver & USB Bridge for the converter.
3. For downloading the firmware, please visit or web site [www.milestone.co.in](http://www.milestone.co.in) & download UD-35 Driver. This contains the Milestone Device Server Toolkit driver for the Converter.

## INSTALLATION INSTRUCTIONS

This converter has to be used with PC with Windows Operating System.

### **Installation of UD-35 :**

1. Plug in the UD-35 using USB A-A cable to PC USB port. As soon as it is plugged in, it will start to install the driver automatically.
2. Insert 'CD' provided along with the kit.
3. Follow the instructions till you get displayed message "MLU485 installed successfully" click "OK". Now the drivers are installed and the unit is ready to use .

Note: - **This installation is required only once or after uninstallation.**

4. Check in the device manager whether VIRTUAL COM PORT has been installed and also check the properties of the port. (Such as Baud rate, Buffer size etc.)
5. Connect RS232 port through appropriate cable. Now you are ready for communication between PC and external RS232 device using Virtual Com Port .

### **Uninstall the Drivers:**

To uninstall the “Driver” run “CYG\_UNINSTALL” from the CD provided along with the kit, you will get a display message screen, which will guide you through the uninstallation of the Drivers.

### **CONNECTORS**

**TABLE I: USB Port - Pin Description**

<b>Pin No.</b>	<b>Signal Name</b>
1	VBUS
2	D-
3	D+
4	Signal Ground

**TABLE II: Output port-RS232-D9 Male connector**

<b>PIN No.</b>	<b>Signal</b>	<b>IN/OUT</b>
1	DCD	IN
2	RXD	IN
3	TXD	OUT
4	DTR	OUT
5	GND.	GND.
6	DSR	IN
7	RTS	OUT
8	CTS	IN
9	RI	IN

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