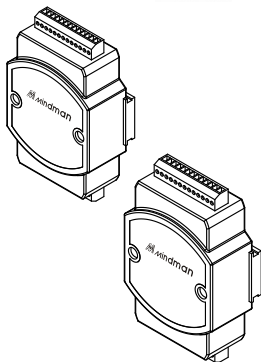




### Features:

- Auto tuner baud rate, 300~115200bps.
- 3000 VDC isolation protection.
- ESD protection.
- Power Inputs +10~+30VDC (RS-232 type)
- No external power supply (USB type)
- Fully compliant with USB 1.1 / 2.0
- DIN-Rail or wall mounting.
- Driver support Windows 98/ ME/ 2000/ XP/ Window7/ WinCE/ Mac/ Vista/ Linux/ Android  
Windows Server 2008 R2.



### Order example:

MA – 1520U

#### MODEL

Model	Interface
MA-1520	RS-232 to RS-485
MA-1521	RS-232 to RS-485 / 422 / 232
MA-1520U	USB to RS-485
MA-1521U	USB to RS-485 / 422 / 232
MA-1571U	USB to RS-485 / 422 / 232

### Specification:

Model	MA-1520	MA-1521	MA-1520U	MA-1521U	MA-1571U
Interface	RS-232 to RS-485	RS-232 to RS-485/422/232	USB to RS-485	USB to RS-485 /422/232	USB to RS-485/422/232
Speed	Auto Tuner baud rate, 300~115200 bps				
Transfer distance	Max. 1,200 m for speed 9.6 K bps; max. 400m for speed 115.2 K bps				
Supports max device	Maximum of 256 devices (Without repeater)				
ESD protection	Yes				
Supply voltage	+10~+30VDC		—		
Power consumption	Nearly 24V/0.5W		Nearly USB Port/0.5W		
OS driver	—		Windows 98 / ME / 2000 / XP Window7(32/64 bit)/ WinCE / Vista (32/64 bit) / Linux / Mac		Window s 98 / ME / 2000 / XP/Window7(32/64bit) / WinCE/Vista (32/64 bit) / Linux /Mac / Windows Server 2008 R2/ Android
Operation temperature	-20~+75℃ (No freezing)				
Storage temperature	-25~+80℃ (No freezing)				
Installation	DIN-Rail or wall mounting				
Connection	DB9(Female to RS-232)/USB(Type B); Removable 13-pin Terminal Block ( For RS-422 / 485 / 232 )				
Size (L×W×H)	120×77×40 mm (with bracket)				

## Pin Assignments:

Terminal No.	MA-1520	MA-1521	MA-1520U	MA-1521U	MA-1571U	Interface
1	DATA+	DATA+	DATA+		DATA+	RS-485
2	DATA-	DATA-	DATA-		DATA-	
3		TX+			TX+	RS-422/ RS-485
4		TX-			TX-	
5		RX+/D2+			RX+/D2+	RS-422/ RS-485
6		RX-/D2-			RX-/D2-	
7		TXD			TXD	RS-232
8		RXD			RXD	
9		(B)GND			(B)GND	
10		(B)GND			(B)GND	
11		NC			NC	
12	(R)+VS	(R)+VS	(R)+VS		NC	
13	(B)GND	(B)GND	(B)GND		NC	

## Block Diagram:

