BOSI Electronics: RS-232/RS-485 expert http://www.bo-si.com

BOSI® RS-232/RS-485/RS-422 Converter

1 Introduction

BOSI RS-232/RS-485/RS-422 converters are used to extend RS-232 communication distance to 1200m (9600bps). They are also used to establish multi-drop communication system of PC-PC or PC-MCU,etc.BOSI electronics is ISO9002 certified. BOSI RS-232/RS-485/RS-422 converters won gold medal of 2000 international measurement and control exhibition.

2 Hardware Installation

All Model products are DB-9/DB-9 size size. The DB-9 side of converter can be directly plugged into DB-9 port of RS-232 socket (male) . If RS-232 port of your PC is DB-25, then a DB-9/DB-25 adaptor is needed.

DB-9:2-RXD,3-TXD,5-GND.

DB-25:2-TXD,3-RXD,7-GND.

It is suggested that RS-485 (or RS-422) must GND-connected. All RS-485 (or RS-422) port in the same net should have commom GND. If distance is over 100m or high viltage exists, then you'd better use optical-isolated converters.

3 Software

No software settings, no driving software is needed! Only RXD, TXD, GND of RS-232 are needed. RTS or DTR is not used.BOSI converters support all software of RS-232.

4 Characteristics

Model	Function	Feather	Power	
485C	RS-232/RS-485/RS-422 converter	Full or half duplex	Port-powered	
485TC	Optical-isolated RS-232/RS-485/RS-422 converter	Full or half duplex	Port-powered	
485A	RS-232/RS-485 converter	half duplex	Port-powered	
485TA	Optical-isolated RS-232/RS-485 converter	half duplex	Port-powered	
U485C	Optical-isolated RS-232/RS-485/RS-422 converter	Full or half duplex	5V DC	
U485A	Optical-isolated RS-232/RS-485 converter	half duplex	5V DC	
C-series a	C-series are only converters support Full & half duplex multi-drop communication simuteniously.			

T-series are world's only converters of port-powered optical-isolated RS-232/RS-485/RS-422converters.

RS-485 always means half-duplex. RS-422 always means full-duplex.Model 485C and 485A support up to $115.2 \text{Kbps}_{\, \circ}$ Model U485C and U485A support up to 9600 bps (DC5 $\pm 0.5 \text{V}_{\, \circ}$ <50mA) ,and also can be port-powered just as non-optical-isolated convetrer(through jump pin setting). Model 485TC and 485TA support up to 9600 bps/57600 bps and need no power supply!.

BOSI RS-232/RS-485/RS-422 converters are 128-nodes type .Optical isolated RS-232/RS-485/RS-422 converters can isolate 2500V voltage.

5 Photos of products





TEL: 0086-27-87561485 87561486 87561487 fax: 0086-27-87561554 http://www.bo-si.com

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PIN DISCRIPTION

DB-9 male of 485C or 485TC(half duplex):

	8-9	1-5	2-4	3
Jump set		RS-485 (+A)	RS-485 (—B)	GND(地)

^{*} 1-5 connected as (+A) of RS-485.

DB-9 male of 485C or 485TC(full duplex): :

7-8	1 (RS-422)	2 (RS-422)	4 (RS-422)	5 (RS-422)	3
Jump set	TX (+Y)	TX (—Z)	RX (—B)	RX (+A)	GND

485A/485TA	1	2	3
DB-9 MALE	RS-485 (+A)	RS-485 (—B)	GND

U485C has just one more than 485TC:	6
(no half/full duplex set):	+5V

If U485C set J1 ON and J2 ON ,then U485C is port-powered!

U485A	1	2	6	3
DB-9 male	RS-485 (+A)	RS-485 (—B)	+5V	GND

If U485A set J1 ON and J2 ON , then U485A is port-powered!

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^{**} 2-4 connected as (+A) of RS-485.