

BOSHIKA: RS-232/RS-485 expert

485C/485TC	U485C	485A/485TA	U485A	485A1
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RS-232/RS-485/RS-422 Converter

1 Introduction

BOSHIKA 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. BOSHIKA electronics is ISO9002 certified. BOSHIKA RS-232/RS-485/RS-422 converters won gold medal of international measurement and control exhibition.

2 Hardware Installation

All Model products are DB-9/DB-9 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 common GND. If distance is over 100m or high voltage 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. BOSHIKA converters support all software of RS-232.

4 Characteristics

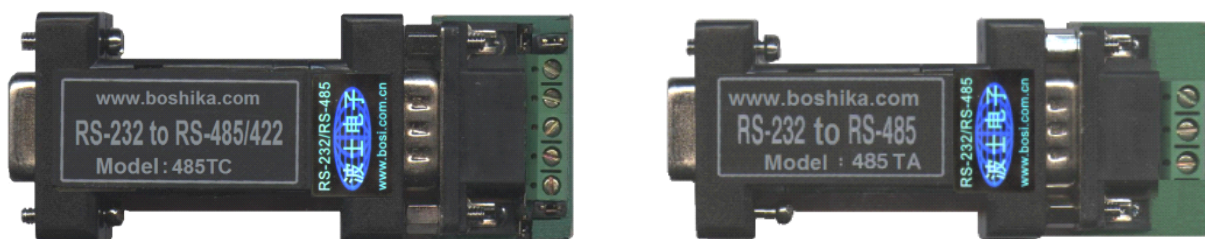
Model	Function	Duplex	Power
485C	RS-232/RS-485/RS-422 converter	Full or half duplex	Port-powered
485TC	Optical-isolated RS-232/RS-485/RS-422 converter	Full or half duplex	Port-powered
485A	RS-232/RS-485 converter	half duplex	Port-powered
485TA	Optical-isolated RS-232/RS-485 converter	half duplex	Port-powered
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 converters support Full & half duplex multi-drop communication simultaneously.
T-series converters are port-powered optical-isolated RS-232/RS-485/RS-422 converters.

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

BOSHIKA 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



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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

* 1-5 connected as (+A) of RS-485 by Jump.

** 2-4 connected as (+B) of RS-485 by Jump.

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		T+ (+Y)	T- (-Z)	R- (-B)	R+ (+A)	GND

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

U485C has just one more than 485C:	6
	+5V

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

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

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

6、485C、485TC、U485A、U485C Jump Set

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