

TECHNICAL BULLETIN

[Issue No.] T09-0017

[Page] 1/2

[Title] Cautions when connecting the CC-Link RS-232C interface module to an external device

[Date of Issue] Sep., '04

[Relevant Models] AJ65BT-R2

Thank you for your continued support of Mitsubishi programmable logic controllers, MELSEC-A and -Q series.

This bulletin provides the following cautions when connecting the CC-Link RS-232C interface module (hereinafter referred to as AJ65BT-R2) to an external device.

1. Cautions

The AJ65BT-R2 performs communications regardless of the RS signal status from the external device. Because of this, the CS signal must be ON constantly on the AJ65BT-R2 side. Please use the wiring pattern given in the manual.

If communications are performed in any other wiring pattern like the one shown below, the following may occur:

- (1) Data cannot be transferred between the AJ65BT-R2 and the external device.
- (2) The RUN LED on the AJ65BT-R2 turns off, and data transfer with the external device and data link with the CC-Link master station are disabled.

Connection example not given in the manual

AJ65BT-R2 side (DTE)		Cable connection and signal direction	External device side (DTE) ^{*1}
Signal code	Pin No.		Signal code
SD	3		SD
RD	2		RD
RS	7		RS
CS	8		CS
DR	6		DR
SG	5		SG
CD	1		CD
ER	4		ER

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[Page] 2/2

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2. Preventive measures

When connecting the AJ65BT-R2 to an external device, connect the cables correctly as shown in the examples below. For details, refer to the following manual.

- RS-232C Interface Module Type AJ65BT-R2 User's Manual IB-66781

(1) Connection example for enabling DC code control and DTR/DSR signal control

AJ65BT-R2 side (DTE)		Cable connection and signal direction	External device side (DTE) ^{*1}
Signal code	Pin No.		Signal code
SD	3		SD
RD	2		RD
RS	7		RS
CS	8		CS
DR	6		DR
SG	5		SG
CD	1		CD
ER	4		ER

(2) Connection example for enabling DC code control only

AJ65BT-R2 side (DTE)		Cable connection and signal direction	External device side (DTE) ^{*1}
Signal code	Pin No.		Signal code
SD	3		SD
RD	2		RD
RS	7		RS
CS	8		CS
DR	6		DR
SG	5		SG
CD	1		CD
ER	4		ER

*1 For wiring on the external device side, please refer to the relevant manual.