

RS-232 Interface

Specifications

Data transmission: Synchronization: Handshaking:

Signal levels:

Baud rate:

Data word length: Parity Settings: Stop bits: Connector (printer side): Serial Asynchronous DTR/DSR or XON/XOFF control

MARK = -3to -15 V: Logic "1"/OFF SPACE = +3to +15 V: Logic "0"/ON 1200, 2400, 4800, 9600, 19200, 38400, 57600 bps [bps: bits per second] 7 or 8 bits None, even, or odd 1 or 2 stop bits Female DSUB-25 pin connector (standard)





Signal definition

Pin number	Signal name	Signal direction	Function
1	FG	-	Frame ground
2	TXD	Output	Transmit data
3	RXD	Input	Receive data
5	NC	+/	Not connected
6	DSR	Input	This signal indicates whether the host computer
			can receive data.
7	SG	· · · · · · · · · · · · · · · · · · ·	Signal ground
8-19	NC	-	Not connected
4, 20	DTR	Output	This signal indicates whether the printer is busy.
21-25	NC		Not connected

Handshake timing sequence

DTR/DSR transmit timing (hardware handshake)

	Printer status	Action
DTR 1	When the printer goes online after turning on the power.	SPACE
DTR 2	When the receive buffer is released from the buffer full state.	SPACE
DSR	When the receive buffer of host becomes full check this signal.	SPACE



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XON/XOFF transmit timing (software handshake)

	Printer status	Action
XON	When the printer goes online after turning on the power.	TRANSMIT
transmission 1		
XON	When the receive buffer is released from the buffer full state.	TRANSMIT
transmission 2		
XOFF	When the receive buffer of host becomes full check this signal.	TRANSMIT
transmission		

Definition of "receive buffer full"

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- When the receive buffer capacity is set to 4 KB: When the remaining space in the receive buffer drops to 128 bytes, the printer status becomes "buffer full" and it remains "buffer full" until the space in the receive buffer increases to 146 bytes.
- When the receive buffer capacity is set to 45 bytes: When the remaining space in the receive buffer drops to 2 bytes, the printer status becomes "buffer full" and it remains "buffer full" until the space in the receive buffer increases to 18 bytes.



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