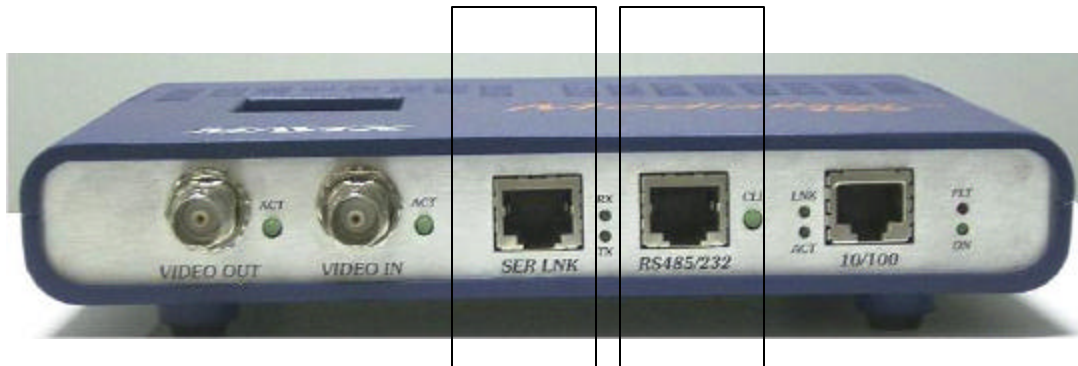


MAVIX FAQ – SETTING UP CONNECTION CABLES

The MAVIX MR100 or MR150 series unit has three ports available to pass data. This includes the Serial Link Port, which handles RS232 data, and the RS485/232 port, which can be configured to be either RS485, RS422, or RS232. The RS485/232 port can be configured to be send two streams simultaneously. Generally, the RS232 port of the RS485/232 port is used as the CONSOLE PORT, and is natively in use by the MAVIX system. For applications where three data ports are required, the CONSOLE PORT can be disabled.

Three data streams can run concurrently between the MR unit and other devices on the network.



SERIAL LNK. *COM 1*

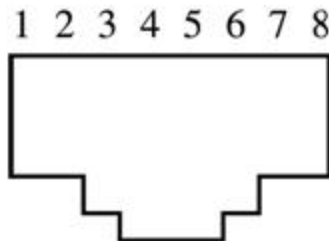
RS485/232. *BOTH COM 2 and COM 3*

RS485 is controlled by pins 1,2, 6 (ground), 7,8 (see following pages for pinout details)

RS232 is controlled by pins 3,4,5 (see following pages for pinout details)

SERIAL RS232 (COM 1) & RS485 (COM 2) RJ-45 CONNECTOR

Pin Number	RS232 (COM1)	Description	RS485 (COM2)	Description
1		Not Used	RX+	Differential Data (Half Duplex optional, TRX+)
2		Not Used	RX-	Differential Data (Half Duplex optional, TRX-)
3	GND	Signal Ground	GND	Signal Ground
4	TxD	Transmit Data		Not Used
5	RxD	Receive Data		Not Used
6		Not Used	GND	Signal Ground
7		Not Used	TX+	Differential Data
8		Not Used	TX-	Differential Data



PLEASE NOTE THAT IN ORDER FOR THE SYSTEM TO WORK, THE GROUND CONNECTION MUST BE SET.

RS485 JUMPER SETTING

The following table describes the jumper setting for RS485/RS422 full and half duplex configuration as well as RS485/RS422 termination setup (see table 3-1).

In order to change the jumpers, follow the steps below:

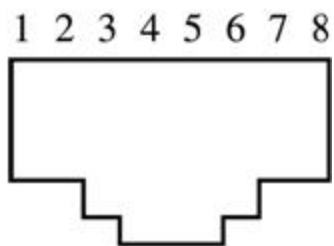
1. Remove power from the unit.
2. Remove all attached cables to the unit.
3. Remove cover.
4. The jumpers are located between the RS232/485 port and 10/100 port.
5. Change jumpers according to the Table 3-1.

DUPLEX	RS232/485 RJ45 PINS ORDER	JUMPER	NOTES
RS485 HALF DUPLEX	1 – RS485 TRX+	J9, J11, J12, J13 ARE CLOSED. J10 IS OPEN	J9 IS OPEN IF TERMINATION ISN'T REQUIRED
	2 – RS485 TRX-		
	3 – GND		
	4 – RS232 TX		
	5 – RS232 RX		
	6 – GND		
	7 – RS485 TX+		NOT USED
	8 – RS485 TX-		NOT USED
RS485 FULL DUPLEX	1 – RS485 RX+	J11, J12, J13 ARE OPEN. J9 & J10 ARE CLOSED	J9 & J10 ARE OPEN IF TERMINATION ISN'T REQUIRED
	2 – RS485 RX-		
	3 – GND		
	4 – RS232 TX		
	5 – RS232 RX		
	6 – GND		
	7 – RS485 TX+		
	8 – RS485 TX-		

Table 3-1: RS485 Jumper Setting

SERIAL TRUNK RJ-45 CONNECTOR (COM 3)

Pin Number	Signal Name (for RS232 only)	Description
1	RTS	Request to Send
2	DTR	Data Terminal Ready
3	GND	Signal Ground
4	TxD	Transmit Data
5	RxD	Receive Data
6	DCD	Data Carrier Detect
7	DSR	Data Set Ready
8	CTS	Clear to Send



10/100 RJ-45 CONNECTOR

Pin Number	Signal Name
1	TD+
2	TD-
3	RD+
4	Not Used
5	Not Used
6	RD-
7	Not Used
8	Not Used

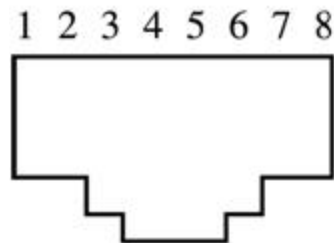


Figure 3-1: RJ-45 Connectors – Pins Order