

InFocus RS232 Control

Introduction:

RS-232 is a communication protocol that can be used to send commands and retrieve status information from the unit and other RS-232 enabled devices. This is often used in conjunction with a control system capable of managing several other systems such as audio, lighting, and video switching systems. Simpler RS-232 implementations require nothing more than a personal computer, null modem serial cable, hex capable communication software and the unit.

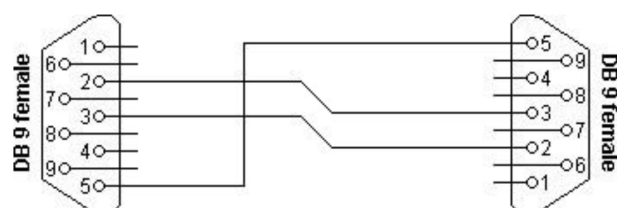
Configuration:

Setting	GENERIC	IN13xST / IN213x / INL215x / IN104xSL / IN106xSL / IN102xSL / IN102xST / IN102x / IN103x / IN104x / IN105x / IN200xUT / IN5009	IN6009
Bits per second Parity	9600 Baud Rate	19200 Baud Rate	115200 Baud Rate
Data Bits	8	8	8
Parity	None	None	None
Stop Bits	1	1	1
Flow Control	None	None	None

Required Cable:

Null modem cable – female to female DB9 connector (9-pin serial)

Connector Pin-out:



Connector 1	Connector 2	Function
2	3	Transmit/Receive Data
3	2	Receive/Transmit Data
5	5	Ground

Minimum timing requirements:

- 300ms between commands
- 10ms character delay
- 20 second delay after a Power Off is initiated
- 1 second delay after a source change is initiated

Specific product RS232 codes can be found in the user guide of the product or requested from the support team.

InFocus LAN Control

InFocus projectors support control over LAN through a web control interface built into the projector. Once the projector is connected to the LAN, enter the IP address of the projector in a computer web browser to connect directly. An account may need to be set up for the projector and then login will be required. Details of the features can be found in the projector's user guide.

Projector can also be controlled from other manufacturer equipment such as wall switches. All projectors are controlled using RS232 standard commands and all devices sending control signals must be able to send these either directly or through a TX/RX module. Control solutions such as PJLink do have specific commands and these can be obtained from https://pjlink.jbmia.or.jp/english/dl_class1.html

Some projectors support the control option through the HDBaseT port on the projector and will need to be configured in the projector menu to function correctly. Details of specific menu settings can be found in the projector's user guide.

Network control ports

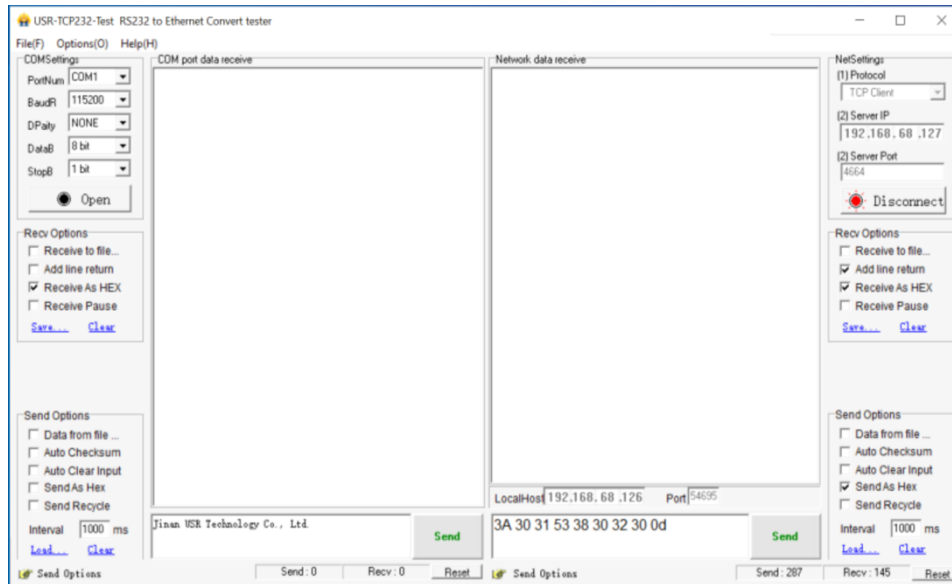
Model	IN134ST IN136ST IN138HDST	IN2134 IN2136 IN2138HD	INL215x INL216x	INL3148HD INL3149WU INL4128 INL4129 IN1048SL IN1049SL	IN102x IN103x IN104x IN105x IN200xUT IN5009	IN1026SL IN1028SL IN1026ST IN1028ST IN1068SL IN1069SL	IN6009
Crestron	41794	41794	41794	-	41794	41794	-
Extron	2023	2023	2023	-	-	2023	-
PJ Link	4352	4352	4352	-	4352	4352	4352
AMX Device Discovery	9131	9131	9131	-	9131	9131	-
Telnet	23	23	23	-	-	23	-
HTTP	80	80	80	80	80	80	-

LAN Control Test Software

The projectors are also able to be controlled using software that sends RS232 signals to the projector. In some cases, the manufacturer of the control devices provide test software such as PJLink Test.

For testing InFocus recommends using USR-TCP232-Test-V1.3 or PacketSender tool which can be downloaded from InFocus support website

1. Open USR-TCP232-Test-V1.3



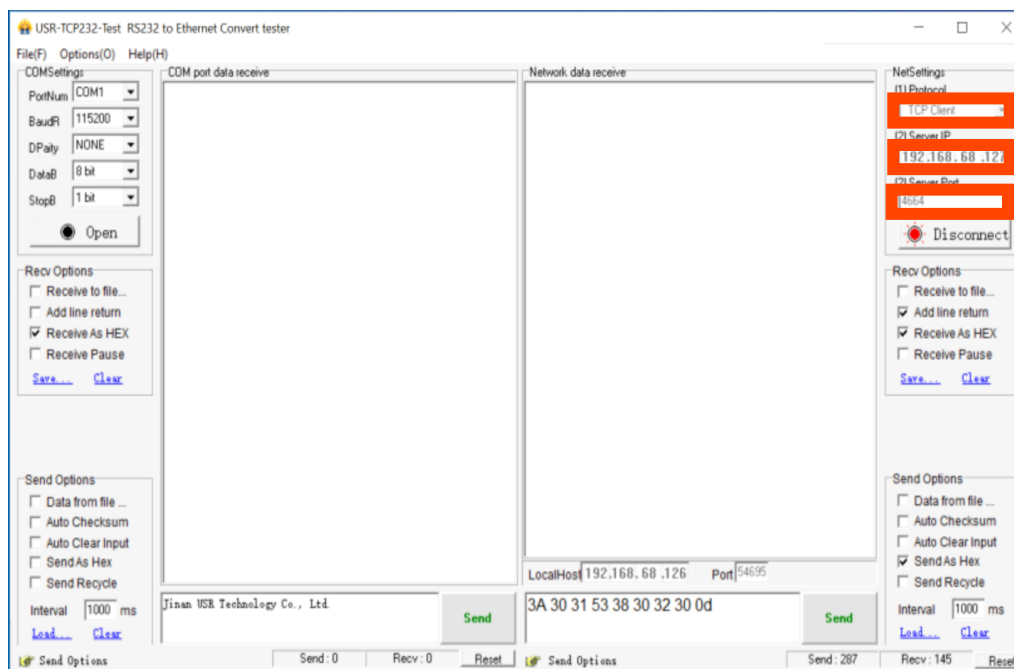
2. Configuration information

Change the protocol type to "TCP Client"

Enter the projectors IP address:

Enter the port no. shown in table above for Telnet connection

View related information on the network option page of the projector for specific network settings



3. Send commands

Enter the required command to send to the projector in the "Network data receive" box and press send

Example: enter shutdown serial port command "[PWR0]" to directly shutdown projector

