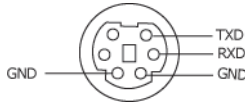




Dell™ 1800MP RS232 Protocol Pin Assignment (Facing Projector)

RS232 Pin Assignment



RS232 Protocol

- Communication Settings

Connection settings	Value
Baud Rate:	19200
Data Bits:	8
Parity	None
Stop Bits	1

- Command types

To pop up the OSD menu and adjust the settings.

- Control command Syntax (From PC to Projector)

[H][AC][SoP][CRC][ID][SoM][COMMAND]

- Example: Power ON Command (Send low byte firstly)

--> 0xBE, 0xEF, 0x10, 0x05, 0x00, 0xC6, 0xFF, 0x11, 0x11, 0x01, 0x00, 0x01

Header "BE EF"

Address Code "10" ==> Fixed

Payload Size "05 00" ==> From wMsgID to end

CRC "C6 FF" ==> If CRC value is "C6 (Low Byte) FF (High Byte)"

MsgID "11 11"

MsgSize "01 00" ==> From command to end.

Command "01" ==> "Power ON" command.

- Projector Response Message Table:

0x00: Success

0x01: Invalid command (on the control command list but not valid. e.g. card reader command while no card reader plug-in)

0x02: Error command (includes CRC error and unknown commands).

0x03: System Status - Projector ON (Normal Mode).

NACK: System Status - Projector OFF (Standby Mode).

Note: When the projector is in the standby mode, no acknowledgement (NACK) response is sent by the projector.

- **Projector Response Lamp Hour:**

Byte0, Byte1, Byte2, Byte3

Byte0: 0x00 (Success)

Byte1: 0x2F (the header of lamp hour)

Byte2: LSB (Hex)

Byte3: MSB (Hex)

Ex: 800 ($3 \times 256 + 2 \times 16 = 800$) hours --> 0x00, 0x2F, 0x20, 0x03

- **Firmware version Response:**

Firmware version: 4 Bytes ASCII Code: "V*.*)"

V: Version

*: 0-9

- **Example:** Version 1.5 --> "V1.5" --> 0x00, 0x30, 0x56, 0x31, 0x2E, 0x35 (Success, header of firmware version, 4 Bytes ASCII Code: "V*.*)"

Control Commands List

Header (WORD)	Address Code (BYTE)	Size of the payload (WORD)	CRC16 for the entire packet (WORD)	Msg ID (WORD)	Msg size (WORD)	Command code (BYTE)	Command Description
0xefbe	0x10	0x0005	0xffe6 0xbf7 0x7e07 0x3fe5 0xfe05 0xbe04 0x7fe4 0x3fe0 0xfe00 0xbe01 0x7fe1 0x3e03 0xffe3 0x7e02 0x3fea 0xfe0a 0xbe0b 0x7feb 0x3e09 0x7e08 0x3e0c 0xffec 0x3fef 0xbe1f 0x7fdf 0xbf49 0x7e19 0x3fdb 0xfe1b 0xbe1a 0x7fda 0x3e12 0x3ff6 0x7e46	0x1111	0x0001	0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08 0x09 0x0A 0x0B 0x0C 0x0D 0x0F 0x10 0x11 0x12 0x13 0x14 0x17 0x18 0x19 0x1C 0x22 0x23 0x2A 0x2B 0x2C 0x2D 0x2E 0x2F 0x30 0x40 0xFF	Power Menu Up Down Left Right R-sync Source Volume + Volume - Zoom in Zoom out Mute Hide Video Mode H. Keystone Up H. Keystone Down V. Keystone Up V. Keystone Down Aspect ratio (4:3/16:9) Power OFF Source-VGA-A Source VGA-B Source-S-Video Source-Composite ECO Mode ON ECO Mode OFF Auto Source ON Auto Source OFF Factory Reset Lamp Hour Firmware Version Enter key System Status

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