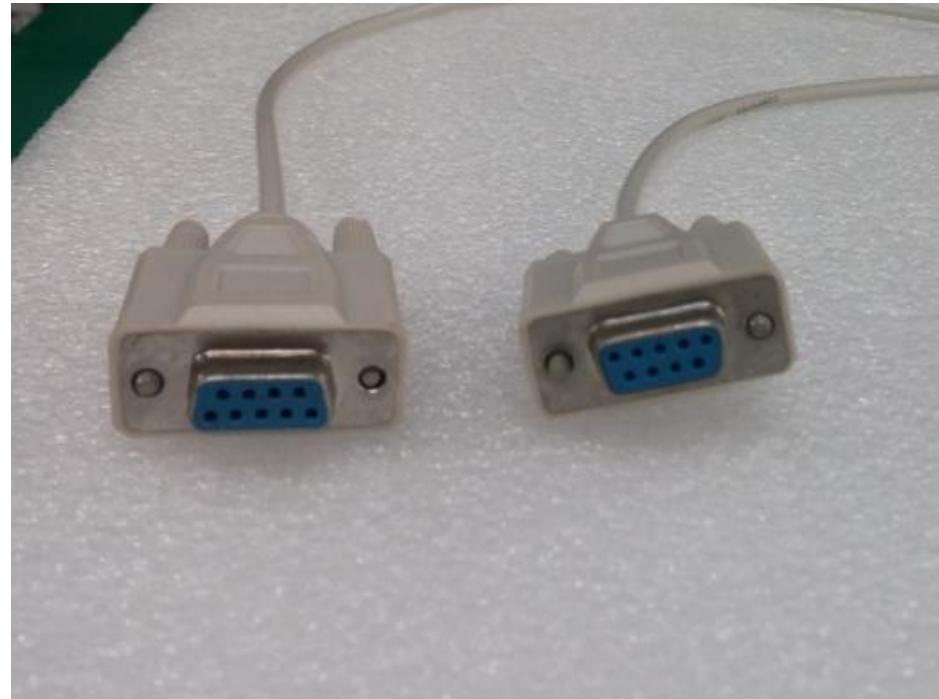


RS232 Protocol

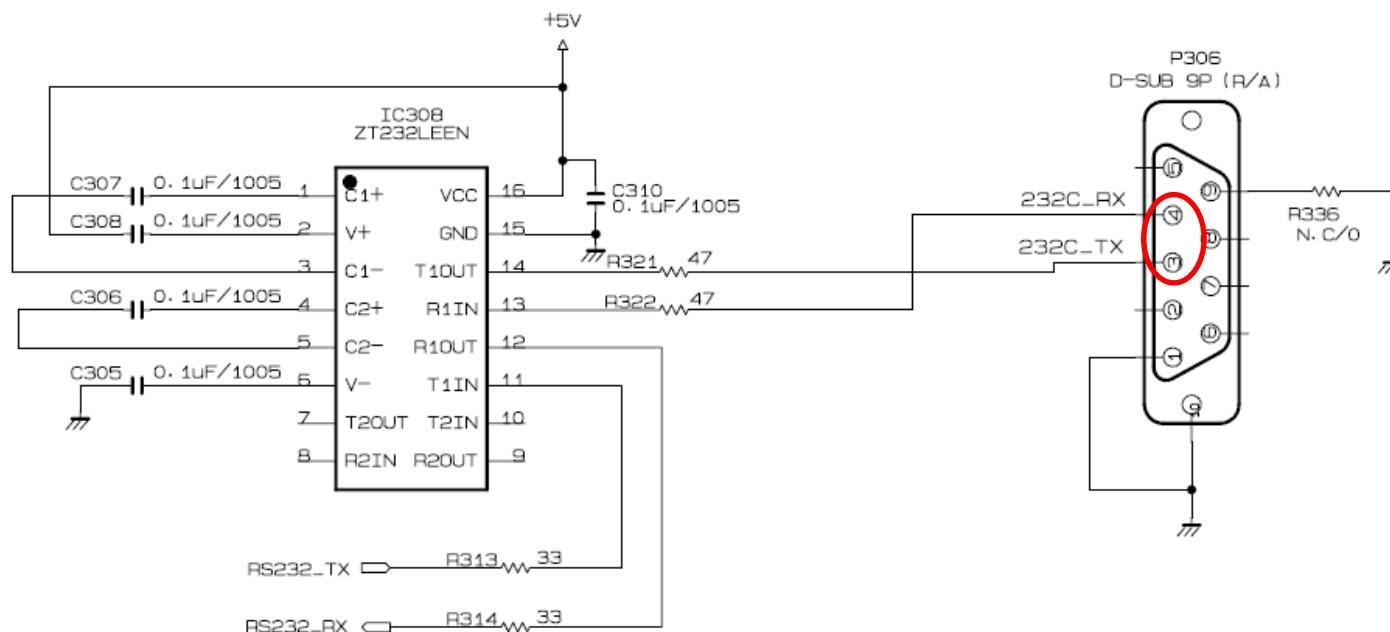
RS232 Cable

- Using RS232 Cable



RS232 Port Schematic

- RS232 Input Schematic



RS232 Command:

1. The virtual serial port should be configured as follows.

Bits per second – 19200

Data bits – 8

Parity – None

Stop bits – 1

Flow control – None

2. An explanation of the content transmitted to the display

Tx: [line 1] BE EF 03 19 00 HH HH II JJ JJ CC CC FF FF FF FF

Tx: [line 2] KK 00 00 00 CC CC

BE EF – signifies the beginning of the transmission (always BE EF)

03 – indicates the packet type (typically 03 in this application)

19 00 – indicates the packet length (typically 19 00 in this application)

HH HH – gives the calculated CRC checksum for the transmission

II – gives the operation type

JJ JJ – gives the operation name (least significant byte is on the left)

KK – gives the operation value

All CC, FF, or 00 – not applicable... always CC, FF or 00 as indicated

RS232 Program Protocol

- Command List
 - Power on:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$00\$02\$01\$00\$00\$00\$00\$00\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Power off:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$00\$02\$01\$00\$00\$00\$00\$04\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - change to AUTO:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$49\$10\$01\$00\$00\$00\$00\$00\$00\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - change to VGA:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$49\$10\$01\$00\$00\$00\$00\$01\$00\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - change to HDMI:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$49\$10\$01\$00\$00\$00\$00\$02\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - change to DVI:
\$BE\$EF\$03\$19\$00\$00\$00\$01\$49\$10\$01\$00\$00\$00\$00\$03\$00\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC

RS232 Program Protocol

- Command List
 - Auto Adjust
\$BE\$EF\$03\$19\$00\$00\$00\$01\$02\$01\$01\$00\$00\$00\$00\$01\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Lock Power
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$00\$00\$00\$00\$01\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Unlock Power
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$00\$00\$00\$00\$02\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Lock OSD
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$01\$00\$00\$00\$00\$03\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Unlock OSD
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$01\$00\$00\$00\$00\$00\$04\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Lock Remocon
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$01\$00\$00\$00\$00\$00\$05\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC

RS232 Program Protocol

- Command List
 - Unlock Remocon
\$BE\$EF\$03\$19\$00\$00\$00\$01\$01\$01\$01\$00\$00\$00\$00\$06\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - Factory Reset
\$BE\$EF\$03\$19\$00\$00\$00\$01\$03\$04\$01\$00\$00\$00\$00\$01\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - OSD TIMEOUT
\$BE\$EF\$03\$19\$00\$00\$00\$01\$03\$03\$01\$00\$00\$00\$00\$00\$Control Level (5-60)
\$00\$00\$00\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET ENGLISH
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$01\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET FRANCAIS
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$02\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET ESPANOL
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$03\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC

RS232 Program Protocol

- Command List
 - SET DEUTSCH
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$04\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET NEDERLANDS
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$05\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET POLSKI
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$06\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET RUSSIA
\$BE\$EF\$03\$19\$00\$00\$00\$01\$04\$01\$01\$00\$00\$00\$00\$07\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET 10000K
\$BE\$EF\$03\$19\$00\$00\$00\$01\$05\$01\$01\$00\$00\$00\$00\$01\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC
 - SET 9300K
\$BE\$EF\$03\$19\$00\$00\$00\$01\$05\$01\$01\$00\$00\$00\$00\$02\$00\$00\$00\$CC\$CC\$CC\$C
C\$CC\$CC\$CC\$CC\$CC\$CC\$CC\$CC

RS232 Program Protocol