



Dell™ C7520QT External Control

1. Application

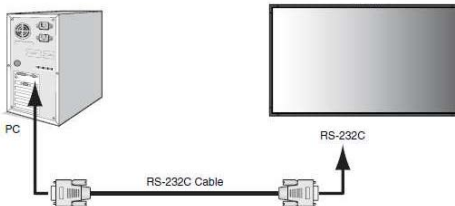
This document defines the communication method for control of the Dell LCD display C7520QT when using an external controller.

2. Connectors and wiring

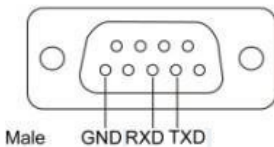
2.1 RS-232C Remote Access

Connector: 9-pin D-Sub

Cable: Straight cable or null modem cable



RS232 Pin Assignment (Facing Display)



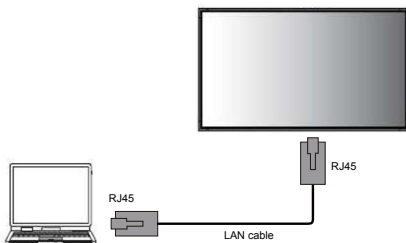
This display uses RXD, TXD and GND lines for RS-232 control.

Note 1: The RS232 cable is not provided by Dell.

2.2 LAN control

Connector: RJ-45 10/100 BASE-T

Cable: Category 5 or higher LAN cable



Note 2: The LAN cable is not provided by Dell

3. Communication Parameter

3.1 RS-232C Remote access

| | |
|-----------------|---------|
| (1) Interface | RS-232C |
| (2) Baud rate | 9600bps |
| (3) Data length | 8bits |
| (4) Parity | None |
| (5) Stop bit | 1 bit |

3.2 LAN control

| | |
|--------------------------|--|
| (1) Communication system | TCP/IP (Internet protocol suite) |
| (2) Interface | Ethernet |
| (3) Communication layer | Transport layer (TCP) Using the payload of TCP segment. |
| (4) IP address | If you need to change, Default: 10.0.50.100 Please refer "Dell Web Management for Displays" section on User's manual. |
| (5) Port No. | 4661 (Fixed) |

4. Communication Format

Control Command Syntax

[H0][H1][Len][R/W][Cmd][Data0]...[DataN][Chk]

[H0] = 0x37

[H1] = 0x51

[Len] = Length

[R/W] = Read/Write

Read = 0xEB

Write = 0xEA

[Cmd] = Command

[Data0]...[DataN] = Data0~N

[Chk] = Check Sum

Reply Command Syntax

[H2][H3][Len][Reply][RC][Cmd][Data0]...[DataN][Chk]

[H2] = 0x6F

[H3] = 0x37

[Len] = Length

[Reply] = Reply (0x02)

[RC] = Result Code

- 0 = Success
- 1 = Timeout
- 2 = Parameters Error
- 3 = Not connected
- 4 = Other Failure

[Cmd] = Command

[Data0]...[DataN] = Data0~N

[Chk] = Check Sum

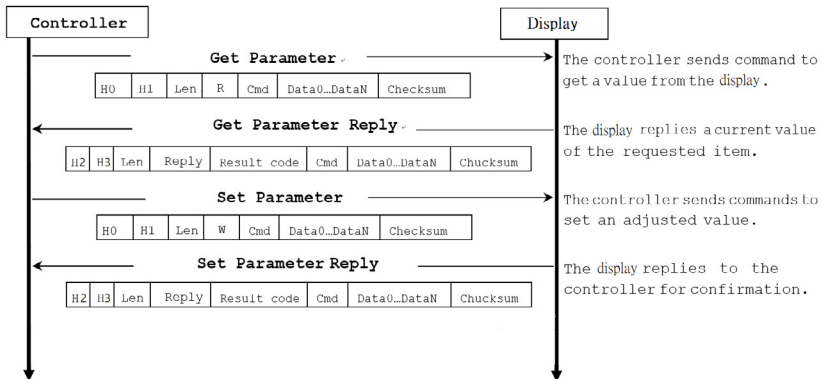
Example: Get Display Name

[From PC to Display] = 37, 51, 02, EB, 01, 8E

[From Display to PC] = 6F, 37, 0F, 02, 00, 01, 44, 65, 6C, 6C, 20, 43, 37, 35, 32, 30, 51, 54, 13

Checksum calculation

Xor byte by byte from first byte to the end of the command data stream.



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March 2019 Rev. A00