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Dell™ C8621QT RS232 External Control

1. Application

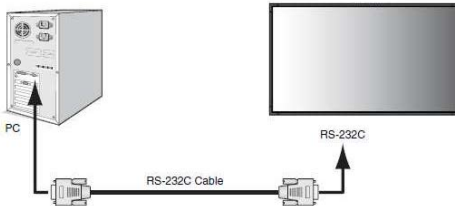
This document defines the communication method for control of the Dell LCD display C8621QT when using an external controller.

2. Connectors and wiring

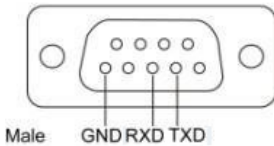
2.1 RS-232C Remote Access

Connector: 9-pin D-Sub

Cable: Straight cable or null modem cable



RS232 Pin Assignment (Facing Display)



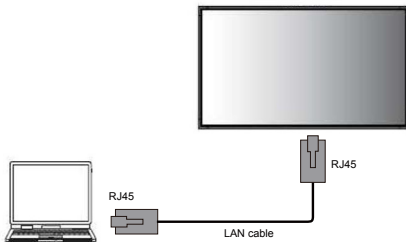
This display uses RXD, TXD and GND lines for RS-232 control.

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

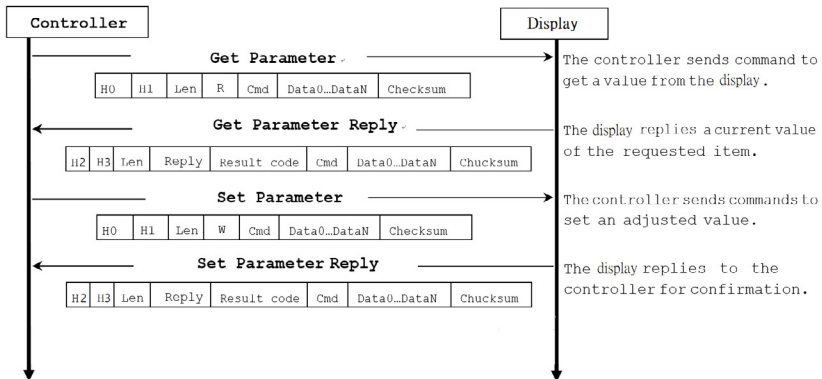
Example: Get Display Name

[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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