

DELL C5522QT 4K Interactive Touch Monitor User Guide

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Dell™ C5522QT/C6522QT RS232
External Control

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Application

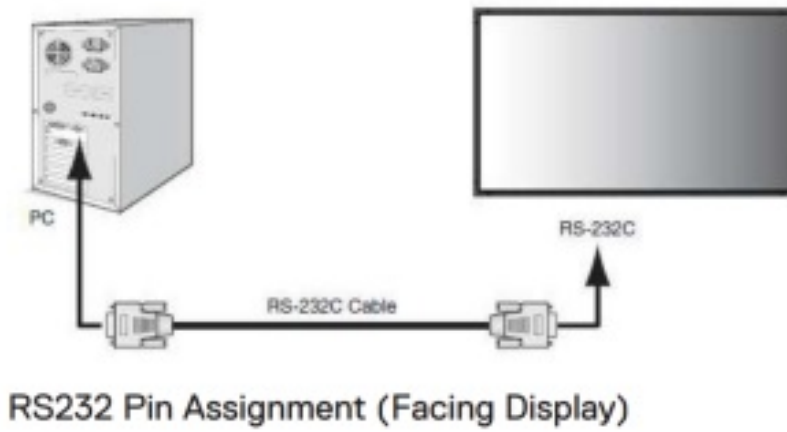
This document defines the communication method for control of the Dell LCD display C5522QT / C6522QT when using an external controller.

Connectors and wiring

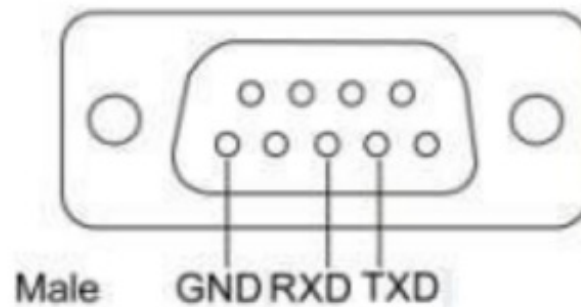
2.1 RS-232C Remote Access

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.

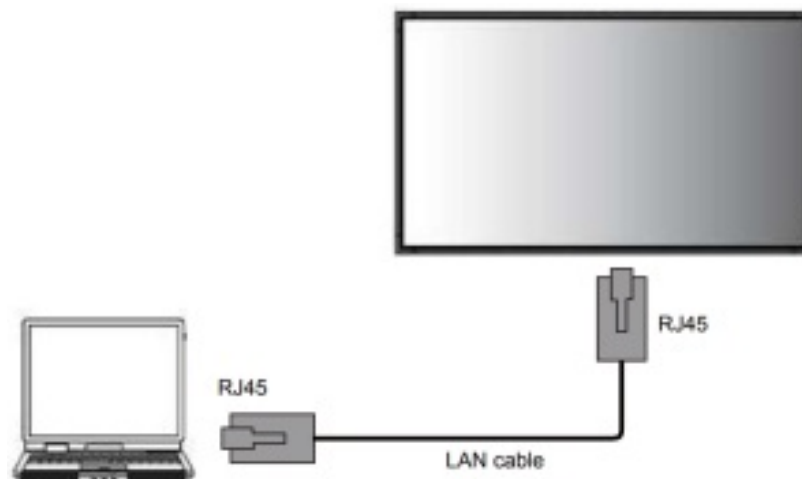


Note 1: The RS232 cable is not provided by Dell.

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

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 a TCP segment.
4	IP address	If you need to change, Default: 10.0.50.100 Please refer "Dell Web Management for Displays" section on the User's manual.
5	Port No.	4661 (Fixed)

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

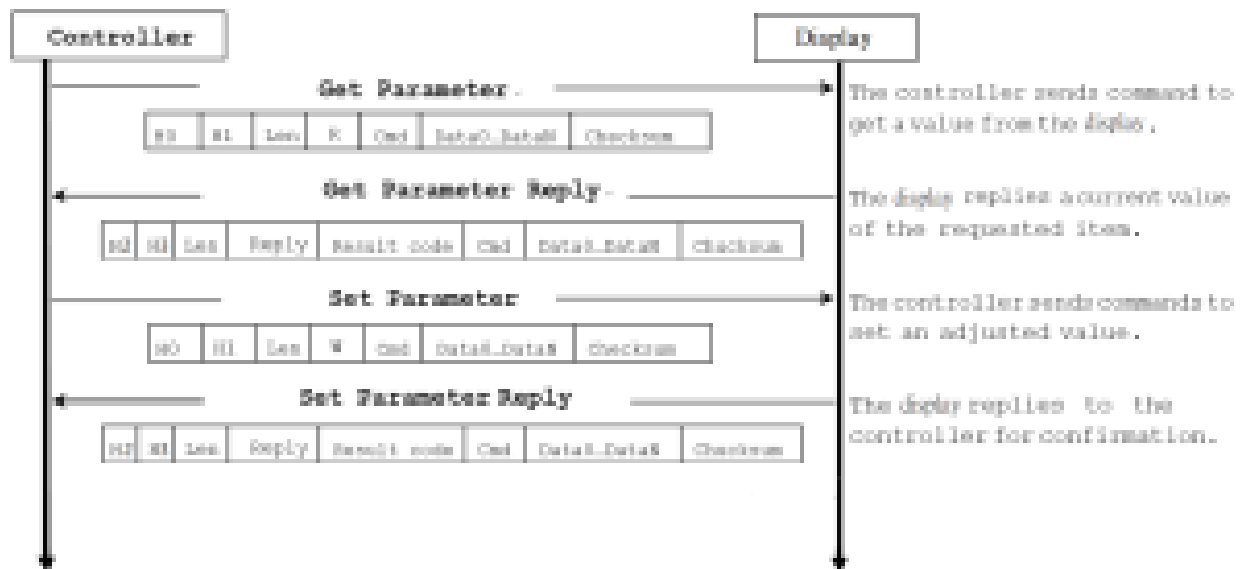
Example: Get Display Name

[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.



Control Commands List

No.	Name / Comment	Parameter					Data					Response					Response				
		Len	R	Cmd	Data0	Data1	Len	R	Cmd	Data0	Data1	Len	R	Cmd	Data0	Data1	Len	R	Cmd	Data0	Data1
Control Command 1																					
1	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
2	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
3	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
4	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 2																					
5	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
6	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
7	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
8	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 3																					
9	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
10	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
11	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
12	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 4																					
13	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
14	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
15	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
16	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 5																					
17	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
18	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
19	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
20	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 6																					
21	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
22	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
23	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
24	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 7																					
25	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
26	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
27	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
28	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 8																					
29	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
30	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
31	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
32	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 9																					
33	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
34	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
35	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
36	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 10																					
37	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
38	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
39	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
40	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 11																					
41	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
42	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
43	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
44	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 12																					
45	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
46	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
47	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
48	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 13																					
49	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
50	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
51	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
52	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00
Control Command 14																					
53	Get Parameter	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00	1	0	01	00	00
54	Set Parameter	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00	1	0	02	00	00
55	Get Parameter Reply	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00	1	1	01	00	00
56	Set Parameter Reply	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00	1	1	02	00	00

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C5522QT, C6522QT RS232, 4K Interactive Touch Monitor