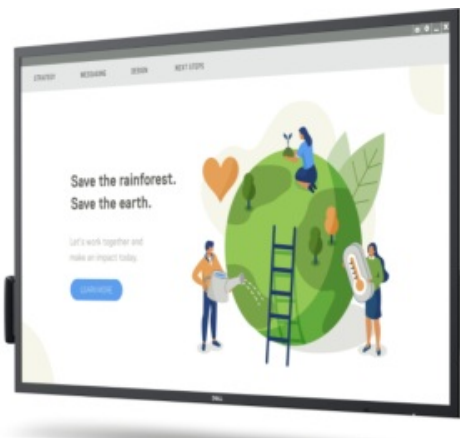


DELL C5522QT External Control User Guide

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DELL C5522QT External Control User Guide



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Application

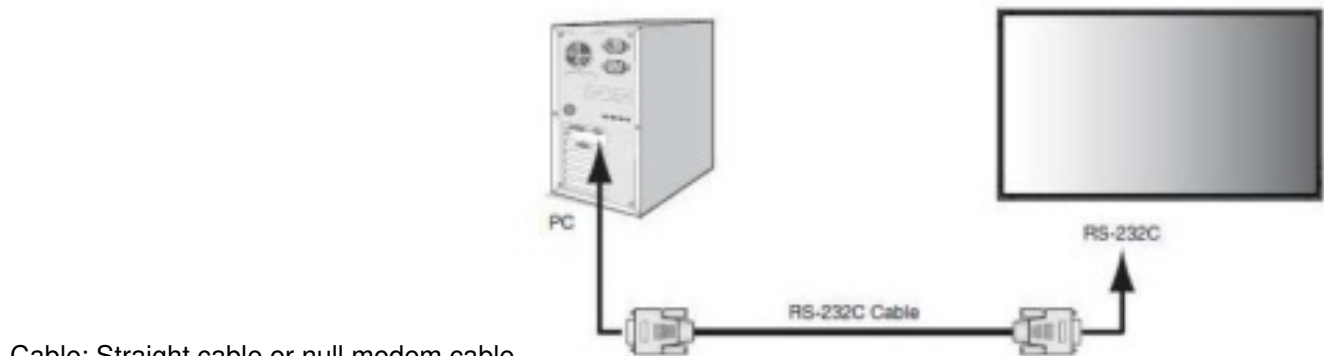
This document defines the communication method for control of the Dell LCD display C5522QT / C6522QT when

using an external controller.

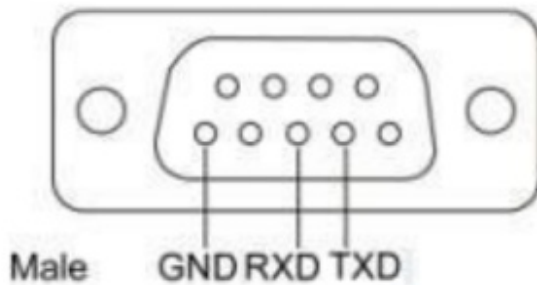
Connectors and wiring

RS-232C Remote Access

Connector: 9-pin D-Sub



Cable: Straight cable or null modem cable
RS232 Pin Assignment (Facing Display)



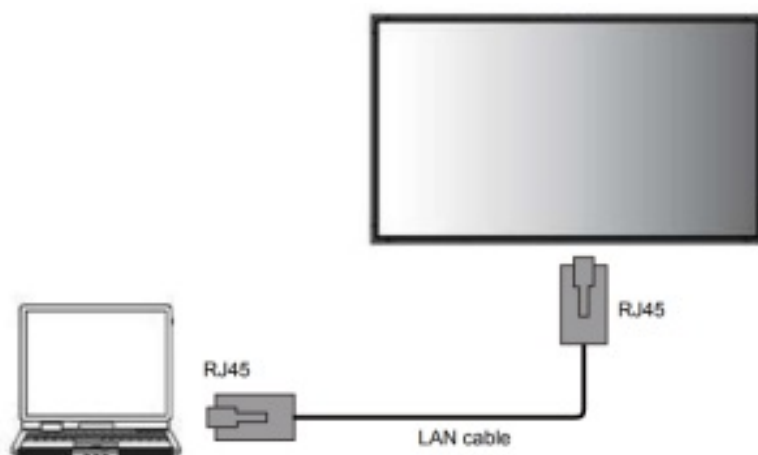
This display uses RXD, TXD and GND lines for RS-232 control.

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

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

RS-232C Remote access

1. **Interface**

RS-232C

2. **Baud rate**

9600bps

3. **Data length**

8bits

4. **Parity**

None

5. **Stop bit**

1 bit

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)

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

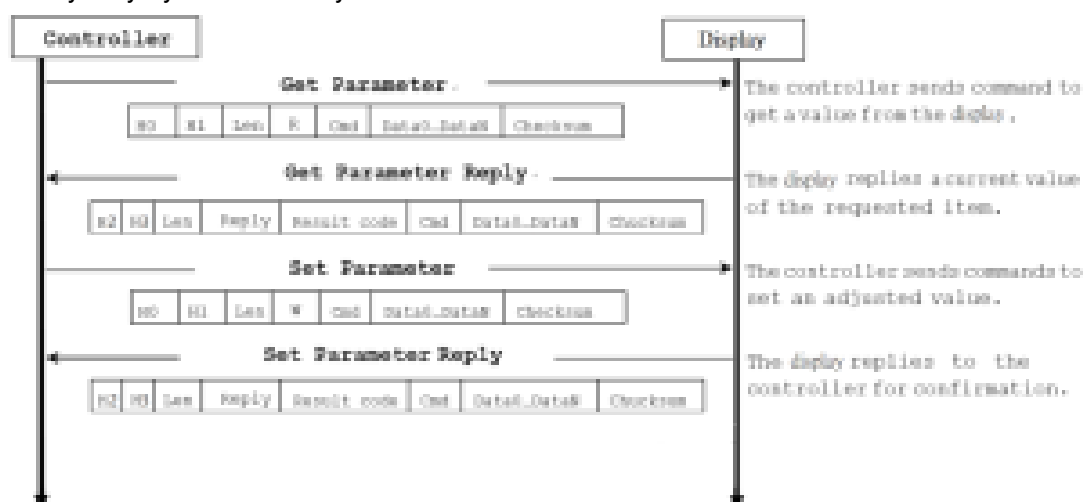
[Len] = Length

[Reply] = Reply (0x02)

[Chk] = Check Sum

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

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



A P I s	P a r m / R e t u e n / C o m m e n t s	H E A D 0	H E A D 1	L E N	R / W	C M D	D 0	D 1	D 2	D 3	D 4	D 5	D 6	D 7	C H K		H E A D 0	H E A D 1	L E N	R e p l y	R e s u l t	C M D	D 0	D 1	D 2	D 3	D 4	D 5	D 6
---------	---	-----------	-----------	-------	-------	-------	-----	-----	-----	-----	-----	-----	-----	-----	-------	--	-----------	-----------	-------	-----------	-------------	-------	-----	-----	-----	-----	-----	-----	-----

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[illegible]

Set Power State - of f	Power State (BYTE)		37	51	03	EA	20	00								AF		6F	37	03	02	00	20									
			37	51	03	EA	20	01								AE		6F	37	03	02	00	20									
			37	51	03	EA	20	02								AD		6F	37	03	02	00	20									
			37	51	02	EB	21									AE		6F	37	04	02	00	21									
Get Power LED	Power LED Set																															

Set Power LED – of during active	ting (BYTE) – of during Active																											
	37	51	03	EA	21	00							AE		6F	37	03	02	00	21								
Set Power LED – on during active	Set Power LED – on during Active																											
	37	51	03	EA	21	01							AF		6F	37	03	02	00	21								
Get Power USB	Get Power USB																											
	37	51	02	EB	22								AD		6F	37	04	02	00	22								
Power USB Set ti																												

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S et B ri gh t n e ss - 0	of 1		37	51	03	E A	30	00							B F	6 F	37	03	02	00	30								
S et B ri gh t n e ss St ep - D e cr ea se	B ri gh t n e ss St ep 0 - D e cr ea se		37	51	03	E A	35	00							B A	6 F	37	03	02	00	35								
S et B ri gh t n e ss St ep - I nc r ea se	(-) 1 - I nc r ea se (+)		37	51	03	E A	35	01							B B	6 F	37	03	02	00	35								

G et C o n t r a s t		3 7	5 1	0 2	E B	3 1											B E		6 F	3 7	0 4	0 2	0 0	3 1								
S et C o n t r a s t - 7 5	C o n t r a s t (B Y T E)	3 7	5 1	0 3	E A	3 1	4 B										F 5		6 F	3 7	0 3	0 2	0 0	3 1								
S et C o n t r a s t - 1 0 0		3 7	5 1	0 3	E A	3 1	6 4										D A		6 F	3 7	0 3	0 2	0 0	3 1								
S et C o n t r a s t - 0	S e t v a l u e s i n c r e m e n t s o f 1	3 7	5 1	0 3	E A	3 1	0 0										B E		6 F	3 7	0 3	0 2	0 0	3 1								

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Set Sharepness - 50	Sharepness (BYTE) - 100																		
Set Sharepness - 100	Sharepness (BYTE) - 100																		
Set Sharepness - 0	Sharepness (BYTE) - 100																		

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Set OSD Transparenc y - 1 0 0	0 v a l u e s i n c r e m e n t s o f 2 0																											
	3 7	5 1	0 3	E A	8 0	6 4									6 B		6 F	3 7	0 3	0 2	0 0	8 0						
Set OSD Transparenc y - 0																												
	3 7	5 1	0 3	E A	8 0	0 0									0 F		6 F	3 7	0 3	0 2	0 0	8 0						
Get OSD L a n g u a g e																												
	3 7	5 1	0 2	E B	8 1										0 E		6 F	3 7	0 4	0 2	0 0	8 1						

S et	O S D L a n g u a g e - E n g l i s h
S et	O S D L a n g u a g e - E s p a ñ o

[illegible]

Set OSD Language – Portuguese (Brazil)	sil) 5 – Русский 6 –																											
	37	51	03	EA	81	04									0A		6F	37	03	02	00	81						
Set OSD Language – Russian																												
	37	51	03	EA	81	05									0B		6F	37	03	02	00	81						

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