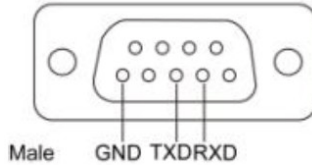


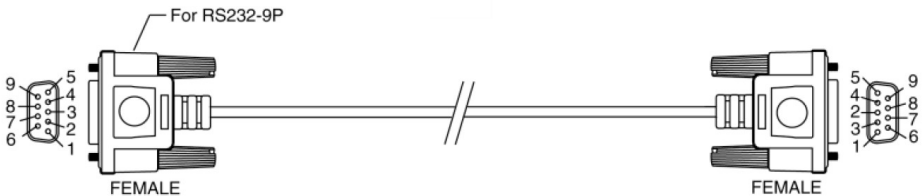


Dell™ C7017T RS232 Protocol Document

- RS232 Pin Assignment



- RS232 Serial Communication Cable Pin Assignment (Facing Cable)



◆ Pin Assignments

RS232	PIN DESCRIPTION	RS232
1		
2	TXD	2
3	RXD	3
4		
5	GROUND	5
6		
7	Not Used	7
8	Not Used	8
9		

NOTE 1: The RS232 (pin2-3 swap) cable is not provided by Dell.

- RS232 Protocol**

Communication Settings

Connection Settings	Value
Baud Rate	9600 bps
Data Bits	8 bits
Parity	None
Stop Bits	1 bit
Flow control	None

Example Command

API	Command sent from SDK	Reply from DUT
GetBrightness	S-6Ea-51a-82a-EBa-30a-CHKa-P	S-6Fa-6Ea-84a-02a-[RC]a-30a-[DATA0]a-...-[DataN]-CHKa-P
Parameters	uLength = 2; uOpCode = 0xEB; // Read uVcpCode = 0x30; // Brightness	uLength = 4; uOpCode = 0x02; // Reaply from DUT uVcpCode = 0x30; Brightness uValue = uBrightness; //0-100
SetBrightness	S-6Ea-51a-83a-EAa-30a-[Data0]a-...-[DataN]-CHKa-P	
Parameters	uLength = 3; uOpCode = 0xEA; // Write uVcpCode = 0x30; Brightness uValue = uBrightness; //0-100	
GetColorPreset	S-6Ea-51a-82a-EBa-48a-CHKa-P	S-6Fa-6Ea-87a-02a-[RC]a-48a-[DATA0]a-...-[DataN]-CHKa-P
Parameters	uLength = 2; uOpCode = 0xEB; // Read uVcpCode = 0x47; // ColorPreset	uLength = 7; uOpCode = 0x02; // Reaply uVcpCode = 0x30; // ColorPreset u32Value = u32ColorPreset; //0-0xFFFFFFFF
SetColorPreset	S-6Ea-51a-86a-EAa-48a-[Data0]a-...-[DataN]-CHKa-P	
Parameters	uLength = 6; uOpCode = 0xEA; // Write uVcpCode = 0x48; // ColorPreset u32Value = u32Brightness; //0-0xFFFFFFFF	

Control Commands List

APIs	Cate Code (M4bit)	Command	N bytes of replied Data	Reply	Comment
GetMonitorName	00h	6e 51 82 eb 01 chk	10	6f-6e-8d-02-[RC]-01-[Data0]-... [DataN]-chk	
GetMonitorSerialNumber	00h	6e 51 82 eb 02 chk	10	6f-6e-8d-02-[RC]-02-[Data0]-... [DataN]-chk	
GetBacklightHours	00h	6e 51 82 eb 04 chk	2	6f-6e-8d-02-[RC]-04-[Data0]-... [DataN]-chk	
GetPowerState	20h	6e 51 82 eb 20 chk	1	6f-6e-84-02-[RC]-20-[Data0]-... [DataN]-chk	Power State 0 Off 1 On 2 Standby
SetPowerState	20h	6e-51-83-ea-20-[Data0]-... -[DataN]-chk	0		Power State 0 Off 1 On 2 Standby
GetPowerLED	20h	6e 51 82 eb 21 chk	1	6f-6e-84-02-[RC]-21-[Data0]-... [DataN]-chk	Power LED Setting 0 Off during Active 1 On during Active
SetPowerLED	20h	6e-51-83-ea-21-[Data0]-... -[DataN]-chk	0		Power LED Setting 0 Off during Active 1 On during Active
GetPowerUSB	20h	6e 51 82 eb 22 chk	1	6f-6e-84-02-[RC]-22-[Data0]-... [DataN]-chk	Power USB Setting 0 Off during Standby 1 On during Standby
SetPowerUSB	20h	6e-51-83-ea-22-[Data0]-... -[DataN]-chk	0		
ResetPower	20h	sd	0		
GetBrightness	30h	6e 51 82 eb 30 chk	1	6f-6e-84-02-[RC]-30-[Data0]-... [DataN]-chk	
SetBrightness	30h	6e-51-83-ea-30-[Data0]-...- [DataN]-chk	0		

GetContrast	30h	6e 51 82 eb 31 chk	1	6f - 6e - 84 - 02 - [RC] - 31 - [Data0] - ... [DataN] - chk	
SetContrast	30h	6e - 51 - 83 - ea - 31 - [Data0] - ... - [DataN] - chk	0	SetContrast	
GetDynamicContrast	30h	6e 51 82 eb 32 chk	1	6f - 6e - 84 - 02 - [RC] - 32 - [Data0] - ... [DataN] - chk	
SetDynamicContrast	30h	6e - 51 - 83 - ea - 32 - [Data0] - ... - [DataN] - chk	0		
GetSharpness	30h	6e 51 82 eb 34 chk	1	6f - 6e - 84 - 02 - [RC] - 34 - [Data0] - ... [DataN] - chk	
SetSharpness	30h	6e - 51 - 83 - ea - 34 - [Data0] - ... - [DataN] - chk	0	SetSharpness	
GetResponseTime	30h	6e 51 82 eb 35 chk	1	6f - 6e - 84 - 02 - [RC] - 35 - [Data0] - ... [DataN] - chk	
SetResponseTime	30h	6e - 51 - 83 - ea - 35 - [Data0] - ... - [DataN] - chk	0		
GetSaturation	40h	6e 51 82 eb 40 chk	1	6f - 6e - 84 - 02 - [RC] - 40 - [Data0] - ... [DataN] - chk	GetSaturation
SetSaturation	40h	6e - 51 - 83 - ea - 40 - [Data0] - ... - [DataN] - chk	0	SetSaturation	
GetHue	40h	6e 51 82 eb 41 chk	1	6f - 6e - 84 - 02 - [RC] - 41 - [Data0] - ... [DataN] - chk	
SetHue	40h	6e - 51 - 83 - ea - 41 - [Data0] - ... - [DataN] - chk	0		
GetColorTemp	40h	6e 51 82 eb 43 chk	4	6f - 6e - 87 - 02 - [RC] - 43 - [Data0] - ... [DataN] - chk	
SetColorTemp	40h	6e - 51 - 83 - ea - 43 - [Data0] - ... - [DataN] - chk	0		

GetColorSpace	40h	6e 51 82 eb 45 chk	4	6f - 6e - 87 - 02 - [RC] - 45 - [Data0] - ... [DataN] - chk	
SetColorSpace	40h	6e - 51 - 83 - ea - 45 - [Data0] - ... - [DataN] - chk	0	SetColorSpace	
GetInputColorFormat	40h	6e 51 82 eb 46 chk	1	6f - 6e - 84 - 02 - [RC] - 46 - [Data0] - ... [DataN] - chk	
SetInputColorFormat	40h	6e - 51 - 83 - ea - 46 - [Data0] - ... - [DataN] - chk	0		
GetColorPresetCaps	40h	6e 51 82 eb 47 chk	4	6f - 6e - 87 - 02 - [RC] - 47 - [Data0] - ... [DataN] - chk	
GetColorPreset	40h	6e 51 82 eb 48 chk	4	6f - 6e - 87 - 02 - [RC] - 48 - [Data0] - ... [DataN] - chk	
SetColorPreset	40h	6e - 51 - 83 - ea - 48 - [Data0] - ... - [DataN] - chk	0		
GetCustomColor	40h	6e 51 82 eb 49 chk	6	6f - 6e - 89 - 02 - [RC] - 49 - [Data0] - ... [DataN] - chk	
SetCustomColor	40h	6e - 51 - 83 - ea - 49 - [Data0] - ... - [DataN] - chk	0		
GetGammaMode	40h	6e 51 82 eb 50 chk	1	6f - 6e - 84 - 02 - [RC] - 50 - [Data0] - ... [DataN] - chk	
SetGammaMode	40h	6e - 51 - 83 - ea - 50 - [Data0] - ... - [DataN] - chk	0		
ResetColor	40h	S - 6Ea - 51a - 82a - EAa - 4Fa - CHKa - P	0		
GetVideoInputCaps	60h	6e 51 82 eb 61 chk	4	6f - 6e - 87 - 02 - [RC] - 61 - [Data0] - ... [DataN] - chk	
GetVideoInput	60h	6e 51 82 eb 62 chk	4	6f - 6e - 87 - 02 - [RC] - 62 - [Data0] - ... [DataN] - chk	

SetVideoInput	60h	6e-51-83-ea-62-[Data0]-...-[DataN]-chk	0		
SetVolumeInput	60h	6e-51-83-ea-63-[Data0]-...-[DataN]-chk	0		
SetOSDLanguage	80h	6e-51-83-ea-81-[Data0]-...-[DataN]-chk	0		
GetOSDLanguage	80h	6e 51 82 eb 81 chk	1	6f-6e-84-02-[RC]-81-[Data0]-...[DataN]-chk	
SetOSDTimer	80h	6e-51-83-ea-83-[Data0]-...-[DataN]-chk	0		
GetOSDTimer	80h	6e 51 82 eb 83 chk	1	6f-6e-84-02-[RC]-83-[Data0]-...[DataN]-chk	
SetOSDButtonLock	80h	6e-51-83-ea-84-[Data0]-...-[DataN]-chk	0		
GetOSDButtonLock	80h	6e 51 82 eb 84 chk	1	6f-6e-84-02-[RC]-84-[Data0]-...[DataN]-chk	
ResetOSD	80h	S-6Ea-51a-82a-EAa-8Fa-CHKa-P	0		
GetVersionFirmware	A0h	6e 51 82 eb a0 chk	10	6f-6e-8D-02-[RC]-A0-[Data0]-...[DataN]-chk	
GetLCDConditioning	A0h	6e 51 82 eb a4 chk	1	6f-6e-84-02-[RC]-A4-[Data0]-...[DataN]-chk	
SetLCDConditioning	A0h	6e-51-83-ea-A4-[Data0]-...-[DataN]-chk	0		
FactoryReset	A0h	S-6Ea-51a-82a-EAa-AFa-CHKa-P	0		
Speaker mute	B0h	6e 51 83 EA B1 1	0		
Speaker unmute	B0h	6e 51 83 EA B1 0	0		
Aspect Ratio	00h	6e-51-83-ea-05-[Data0]-...-[DataN]-chk	0		
Reset Monitor Control Settings	00h	6e 51 82 ea 0E chk	0		

Reset Network Settings	00h	6e 51 82 ea 0F chk	0		
SetVolumeInput	60h	6e-51-83-ea- 63-[Data0]-...- [DataN]-chk	0		

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