

Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player

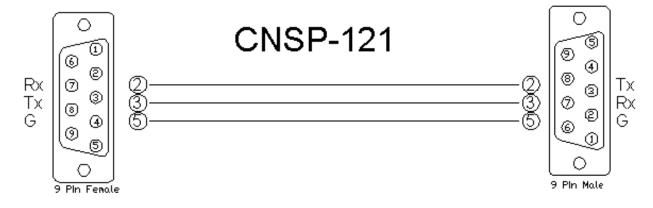


GENERAL INFORMATION					
SIMPLWINDOWS NAME:	Oppo BDP-93 v1.0				
CATEGORY:	Transport Decks				
VERSION:	1.0				
SUMMARY:	This module provides RS232 control and feedback of the Oppo BDP-93 Blu-Ray player.				
GENERAL NOTES:	This module provides RS232 control of the Oppo BDP-93 Blu-Ray player. It also provides true feedback. Oppo uses the same protocol for several players; therefore this module should also control the BDP-95 and the BDP-83. NOTE: To jump to a title, chapter or time there are inputs on the module called Time_Entry_*. To jump to a title or chapter just enter the title or chapter number and press the Send_Title_Number or Send_Chapter_Number input. To jump to a time into the current title, enter the time with colon(s), and then press the Send_Title_Time input. I.E. the time 34 minutes 2 seconds MUST be entered as 34:02. To jump to a time into a chapter time you enter is more than the time of the chapter the disc will jump to the next chapter. I.E. if you are in chapter 4, chapter 4 is 12:34 long and you try to jump to 15:02 of the current chapter the disc will jump to 2:28 of chapter 5.				
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-*				
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity: None Data Bits: 8 Stop Bits: 1				
VENDOR FIRMWARE:	BDP9x-57-0917				
VENDOR SETUP:	None				
CABLE DIAGRAM:	CNSP-121				



Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player





CONTROL:

copen/Close>_Tray D Pulse to open and close the tray. cPlay/Stop/Pause> D Pulse to play stop or pause the disc. cNext/Previous>_Track D Pulse to go to the next or previous track or chapter. Fast_ <forward reverse=""> D Pulse to step through the fast forward and fast reverse speeds. cRed/Green/Blue/Yellow> D Pulse to activate the red, green, blue and yellow functions. chapter_Display D Pulse to turn the on screen display on and off. chapter_Velow> D Pulse to turn the top menu on and off. Pop-up_Menu D Pulse to move through displayed pages. cylpDown/Left/Right> D Pulse to step through the menus. cstup D Pulse to turn the setup menu on and off. cstup D Pulse to select the highlighted menu item. cstup D Pulse to turn the setup menu on and off. cstup D Pulse to turn the setup menu on and off. cstup D Pulse to turn the setup menu on and off. cstup D Pulse to turn the setup menu on and off. cstup D Pulse to turn the setup menu on and off. cstup Pulse to turn the setup menu</forward>			
c A c Pulse to play stop or pause the disc. c Pulse to go to the next or previous track or chapter. Fast_ <forward reverse=""> D c Pulse to step through the fast forward and fast reverse speeds. c Pulse to step through the fast forward and fast reverse speeds. c Pulse to step through the fast forward and fast reverse speeds. c Pulse to activate the red, green, blue and yellow functions. c Pulse to turn the on screen display on and off. c Pulse to turn the top menu on and off. c Pulse to turn the menu or pop-up menu on and off. c Pulse to move through displayed pages. c Pulse to select the highlighted menu item. c Pulse to select the highlighted menu item. c Pulse to return to the previous menu level. c Pulse to return to the previous menu level. c Pulse to select the highlighted menu item. c Pulse to return to the previous menu level. c Pulse to return to the previous menu level. c Pulse to select the highlighted menu item. c Pulse to return to the previous menu level. c</forward>	Power_ <on off="" toggle=""></on>	D	Pulse to turn the unit on and off.
cNext/Previous>_Track D Pulse to go to the next or previous track or chapter. Fast_ <forward reverse=""> D Pulse to step through the fast forward and fast reverse speeds. cRed/Green/Blue/Yellow> D Pulse to activate the red, green, blue and yellow functions. On_Screen_Display D Pulse to turn the on screen display on and off. Fop Menu D Pulse to turn the top menu on and off. Pop-up_Menu D Pulse to move through displayed pages. Page_<up down=""> D Pulse to move through the menus. cUp/Down/Left/Right> D Pulse to turn the setup menu on and off. Setup D Pulse to turn the setup menu on and off. Return D Pulse to select the highlighted menu. Return D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Return D Pulse to select the highlighted menu item. Setup D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up></forward>	<open close="">_Tray</open>	D	Pulse to open and close the tray.
Fast_ Pulse to step through the fast forward and fast reverse speeds. Page_ Pulse to activate the red, green, blue and yellow functions. Pop-up_Menu Pulse to turn the on screen display on and off. Pop-up_Menu Pulse to turn the top menu on and off. Page_ Pulse to turn the menu or pop-up menu on and off. Page_ Pulse to move through displayed pages. cup/Down/Left/Right> Pulse to select the highlighted menu item. Setup Pulse to turn the setup menu on and off. Pulse to move through displayed pages. Pulse to move through displayed pages. cup/Down/Left/Right> Pulse to select the highlighted menu item. Return Pulse to turn the setup menu on and off. Return Pulse to return to the previous menu level. Pulse to select the highlighted menu item. Pulse to select the highlighted menu item. Return Pulse to select the highlighted menu item. Pulse to select the highlighted menu item. Pulse to return to the previous menu level. Return Pulse to select the highlighted menu item. Pulse to select the highlighted menu item. Pulse to select the previous menu level. Pulse to select the previous menu level. Pulse to select the highlighted menu item.	<play pause="" stop=""></play>	D	Pulse to play stop or pause the disc.
c D Pulse to activate the red, green, blue and yellow functions. character D Pulse to turn the on screen display on and off. Cop-up_Menu D Pulse to turn the top menu on and off. Pop-up_Menu D Pulse to turn the menu or pop-up menu on and off. Page_ <up down=""> D Pulse to move through displayed pages. cUp/Down/Left/Right> D Pulse to select the highlighted menu item. Setup D Pulse to return to the previous menu level. Return D Pulse to select the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up>	<next previous="">_Track</next>	D	Pulse to go to the next or previous track or chapter.
Dn_Screen_Display D Pulse to turn the on screen display on and off. Top Menu D Pulse to turn the top menu on and off. Pop-up_Menu D Pulse to turn the menu or pop-up menu on and off. Page_ <up down=""> D Pulse to move through displayed pages. cUp/Down/Left/Right> D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Keypad_<09/Clear> D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up>	Fast_ <forward reverse=""></forward>	D	Pulse to step through the fast forward and fast reverse speeds.
Top Menu D Pulse to turn the top menu on and off. Pop-up_Menu D Pulse to turn the menu or pop-up menu on and off. Page_ <up down=""> D Pulse to move through displayed pages. CUp/Down/Left/Right> D Pulse to move through the menus. Enter D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Return D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up>	<red blue="" green="" yellow=""></red>	D	Pulse to activate the red, green, blue and yellow functions.
Pop-up_Menu D Pulse to turn the menu or pop-up menu on and off. Page_ <up down=""> D Pulse to move through displayed pages. <up down="" left="" right=""> D Pulse to move through the menus. Enter D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Keypad_<09/Clear> Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up></up>	On_Screen_Display	D	Pulse to turn the on screen display on and off.
Page_ <up down=""> D Pulse to move through displayed pages. <up down="" left="" right=""> D Pulse to move through the menus. Enter D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Return D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up></up>	Top Menu	D	Pulse to turn the top menu on and off.
<up down="" left="" right=""> D Pulse to move through the menus. Enter D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Return D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.</up>	Pop-up_Menu	D	Pulse to turn the menu or pop-up menu on and off.
Enter D Pulse to select the highlighted menu item. Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Keypad_<09/Clear> D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.	Page_ <up down=""></up>	D	Pulse to move through displayed pages.
Setup D Pulse to turn the setup menu on and off. Return D Pulse to return to the previous menu level. Keypad_<09/Clear> D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.	<up down="" left="" right=""></up>	D	Pulse to move through the menus.
Return D Pulse to return to the previous menu level. Keypad_<09/Clear> D Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.	Enter	D	Pulse to select the highlighted menu item.
Keypad_<09/Clear> Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.	Setup	D	Pulse to turn the setup menu on and off.
as using the keypad on the IR remote.	Return	D	Pulse to return to the previous menu level.
Go_To_ <source home_menu=""/> _Screen D Pulse to go to the source or home menu screen.	Keypad_<09/Clear>	D	Pulse to send the keypad button presses to the BDP-93. These are the same as using the keypad on the IR remote.
	Go_To_ <source home_menu=""/> _Screen	D	Pulse to go to the source or home menu screen.



Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player

CRESTRON CERTIFIED INTEGRATED PARTNER

Volume_ <up down=""></up>	D	Press and hold to adjust the volume.
Volume_Mute_ <on off="" toggle=""></on>	D	Pulse to turn the volume mute on and off.
Pure_Audio_ <on off="" toggle=""></on>	D	Pulse to turn the pure audio mode on and off.
Audio	D	Pulse to cycle through the audio settings.
Subtitle	D	Pulse to cycle through the subtitle settings.
Angle	D	Pulse to cycle through the angle settings.
Zoom	D	Pulse to cycle through the zoom settings.
SAP	D	Pulse to cycle through the SAP settings.
AB_Replay	D	Pulse to set and clear the A and B replay end points.
Repeat	D	Pulse to cycle through the repeat settings.
PIP	D	Pulse to turn the PIP on and off.
Resolution	D	Pulse to cycle through the resolution settings.
Subtitle_Shift	D	Pulse to the subtitle shift menu on and off.
Direct_Play	D	Pulse to activate the direct play function.
Dimmer	D	Pulse to cycle through the front panel dimmer settings.
Set_Feedback_Mode_To_(3)_All	D	Pulse to set the automatic feedback mode to (3) which will provide all feedback including time updates every second.
Set_Feedback_Mode_To_(2)_No_Time_Updates	D	Pulse to set the automatic feedback mode to (2) which will provide feedback for power and transport but no time updates.
Set_Feedback_Mode_To_Off	D	Pulse to set the automatic feedback mode to off which will provide no feedback at all.
HDMI_Resolution_*	D	Pulse to set the HDMI output resolution.
TV_System_ <ntsc auto="" pal=""></ntsc>	D	Pulse to the TV system.
Zoom_Ratio_*	D	Pulse to set the zoom ratio. For HDMI Output: 1, AR, FS, US, 1.2, 1.3, 1.5, 2, 1/2. For Component Output: 1, 2, 3, 4, 1/2, 1/3, 1/4.
Repeat_*	D	Pulse to set the repeat mode.



Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player



<shuffle random=""></shuffle>	D	Pulse to turn shuffle or random mode on. This will turn off repeat mode.
Time_Entry_Key_<09/Colon/Clear/Backspace>	D	Pulse to enter the title, chapter or time to jump to. Time must be entered with colon(s) in the format of h:mm:ss where h is hours, mm is minutes and ss is seconds. For more information see the GENERAL NOTES: section of this help file.
Send_Title_Number	D	Pulse to send the entered value as the title number to jump to.
Send_Title_Time	D	Pulse to send the entered time as the time into the current title.
Send_Chapter_Number	D	Pulse to send the entered value as the chapter number to jump to.
Send_Chapter_Time	D	Pulse to send the entered time as the time into the current chapter. For more information see the GENERAL NOTES: section of this help file.
Poll_ <title chapter="" total="">_Time</th><th>D</th><th>Pulse to enable polling for the title, chapter or total time. If feedback mode is (3)_All this will set the feedback mode to (2)_No_Time_Updates. This will poll for the title or chapter number, elapsed time and remaining time.</th></tr><tr><th>Initialize</th><th>D</th><th>Pulse to get the initial status of the BDP-93.</th></tr><tr><th>From_Device</th><th>S</th><th>Serial signal to be routed from a 2-way serial com port.</th></tr></tbody></table></title>		

FEEDBACK:		
Power_Is_ <on off=""></on>	D	High to indicate the current power state.
Tray_Is_ <open closed=""></open>	D	High to indicate the current tray state.
<playing paused="" stopped=""></playing>	D	High to indicate the current transport state.
<fast slow="">_<forwarding reversing=""></forwarding></fast>	D	High to indicate the current transport state.
Step_ <forward reverse="">_Mode</forward>	D	High to indicate the current transport state.
No_Disc	D	High to indicate that there is no disc in the tray.
Loading	D	High to indicate that the player is trying to read the disc in the tray.
<fast slow="">_<forward reverse="">_Speed_Text</forward></fast>	S	Serial signals indicating the fast/slow forward/reverse speed.
Fast_ <forward reverse="">_Speed_Is_<1/2/3/4/5></forward>	D	High to indicate the current fast forward/reverse speed.
Slow_ <forward reverse="">_Speed_Is_*</forward>	D	High to indicate the current slow forward/reverse speed.
Media_Center_Screen_Is_Showing	D	High to indicate that the media center screen is being displayed.



Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player

CRESTRON CERTIFIED INTEGRATED PARTNER

Home_Menu_Screen_Is_Showing	D	High to indicate that the home menu screen is being displayed.
Volume_Level_Gauge	А	Analog signal indicating the current volume level.
Volume_Mute_Is_ <on off=""></on>	D	High to indicate the current volume mute state.
Pure_Audio_Is_ <on off=""></on>	D	High to indicate the current pure audio state.
Feedback_Mode_Is_*	D	High to indicate the current automatic feedback mode.
HDMI_Resolution_Is_*	D	High to indicate the current HDMI resolution setting.
TV_System_Is_ <ntsc auto="" pal=""></ntsc>	D	High to indicate the current TV system setting.
Zoom_Ratio_Is_*	D	High to indicate the current zoom ratio setting.
Repeat_Is_*	D	High to indicate the current repeat mode setting.
<shuffle random="">_Is_On</shuffle>	D	High to indicate that shuffle or random mode is on.
Entered_Text	S	Serial signal displaying the text entered using the _Time_Entry_Key_* inputs.
Poll_ <title chapter="" total="">_Time_Is_Active</th><td>D</td><td>High to indicate the current poll mode. Only applies when feedback mode is no (3) All.</td></tr><tr><th>Current_<Title/Chapter/Total>_Elapsed_Time_
Text</th><td>S</td><td>Serial signal indicating the title, chapter or total elapsed time.</td></tr><tr><th>Current_<Title/Chapter/Total>_Remaining_Tim
e_Text</th><td>S</td><td>Serial signal indicating the title, chapter or total remaining time. (Only available when the corresponding Poll_*_Time_Is_Active is high.)</td></tr><tr><th><Title/Chapter>_Number_Analog</th><th>А</th><th>Analog signal indicating the current title or chapter.</th></tr><tr><th>Total_<Titles/Chapters>_Analog</th><td>A</td><td>Analog signal indicating the total titles or chapters on the disc. (Only available when the corresponding Poll_*_Time_Is_Active is high.)</td></tr><tr><th>Disc_Type_Text</th><th>S</th><th>Serial signal indicating the type of disc in the tray.</th></tr><tr><th>Audio_Type_Text</th><td>S</td><td>Serial signal indicating the audio signal type.</td></tr><tr><th><Audio/Sub_Title>_Language_Text</th><td>S</td><td>Serial signal indicating the current audio or sub title language.</td></tr><tr><th><Audio/Sub_Title>_Track_Number_Analog</th><td>А</td><td>Analog signal indicating the current audio or subtitle language track number.</td></tr><tr><th>Total_<Audio_Tracks/Sub_Titles>_Analog</th><td>А</td><td>Analog signal indicating the total audio or subtitle language tracks available.</td></tr><tr><th>To_Device</th><td>S</td><td>Serial signal to be routed to a 2-way serial com port.</td></tr></tbody></table></title>		

www.crestron.com



Partner: Oppo Model: BDP-93 Device Type: Blu-Ray Player



TESTING: PRO2: v4.003.0015 **OPS USED FOR TESTING:** MC3: 1.002.0000 SIMPL WINDOWS USED FOR TESTING: 3.02.14 **DEVICE DB USED FOR TESTING:** 38.00.002.00 **CRES DB USED FOR TESTING:** 29.00.008.00 SYMBOL LIBRARY USED FOR TESTING: 764 SAMPLE PROGRAM: Oppo BDP-93 v1.0 Demo **REVISION HISTORY:** v1.0 - Initial Release