

WPS-DVR Crestron Drivers

Overview

The following information outlines the use of the Crestron modules for communication via RS232 and TCP-IP with Wirepath™ Surveillance DVRs. Read through all information before using these modules.

Module Details

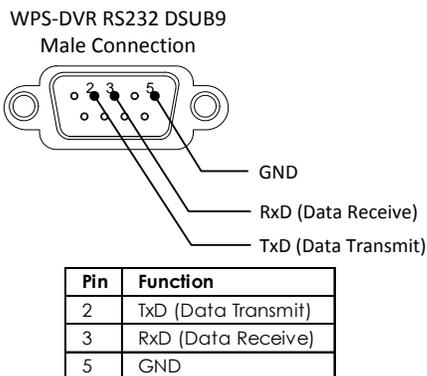
Release Date:	9/26/12
Release Version:	v1
Supported Wirepath™ Products:	WPS-100-DVR-4CH WPS-100-DVR-8CH WPS-300-DVR-9CH WPS-300-DVR-16CH
Supported Wirepath™ Software Version:	7.80.53 Build #1 (4CH and 8CH) 7.80.53 Build #2 (9CH and 16CH)
Supported Crestron Processors:	Crestron Series 2 Crestron Series 3
Supported Crestron Applications:	SIMPL Windows System Builder

Port Configuration and Settings

The WPS-DVR receives control data on pin 3 (RxD – Data Receive) and transmits control data on pin 2 (TxD - Data Transmit). The connection cable between the WPS-DVR and the Crestron Processor will need to be configured so that pin 3 (RxD) on the WPS-DVR is connected to the Crestron Processors TxD pin, and pin 2 (TxD) on the WPS-DVR is connected to the Crestron Processors RxD (Receive Data) pin.

Note: Configuration for the Crestron Processor control ports can vary. Refer to the documentation for the Crestron Processor being used to ensure proper connection and configuration.

- Do not connect any other pins.
- Do not use a factory made cable unless you know that only pins 2-3-5 are populated.



Comport Settings

Baud Rate:	9600
Data Bits:	8
Stop Bits:	1
Parity:	None
Hardware Handshaking:	None
Software Handshaking:	None

System Builder Support

Once the module is added to SystemBuilder, you will need to make all the appropriate connections to the system logic and touch panel template that you are using.

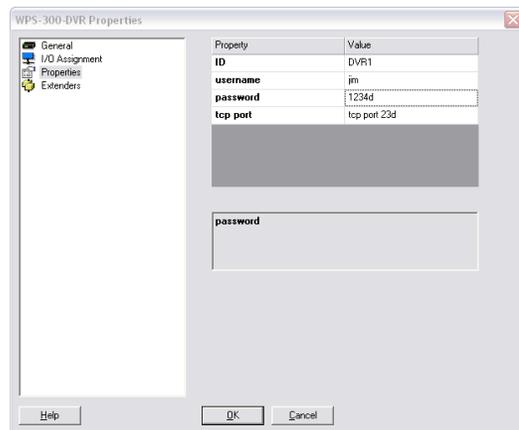
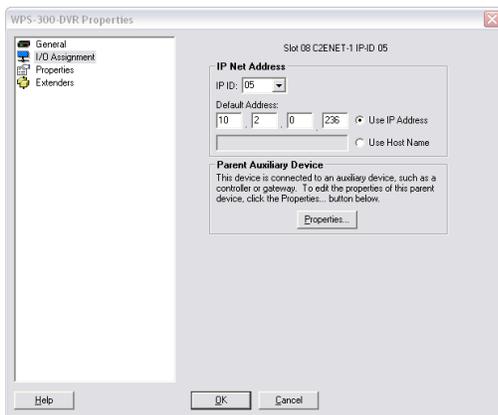
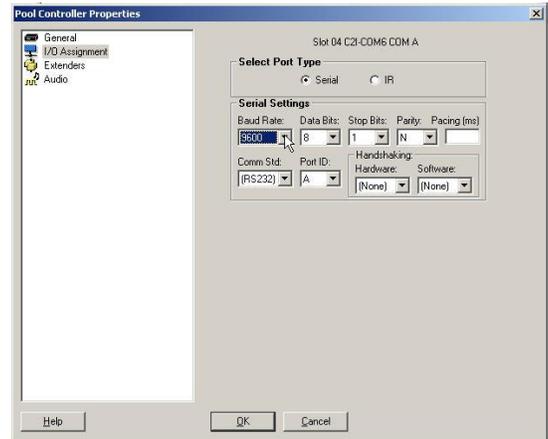
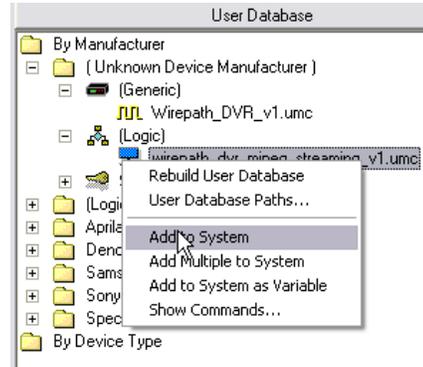
1. Drop the modules into your default User Module path.
 - o Wirepath_DVR(Ethernet)_v1.umc
 - o Wirepath_DVR(Serial)_v1.umc

This path can be found under EDIT>PREFERENCES>USER DATABASE PATHS. Once you have placed the modules in the appropriate folder, be sure to click rebuild.

2. Next open up your project and select the Equipment view.
3. In the lower right hand corner, open the User Database and drill down the By Device Type until you see SnapAV.
4. Expand the category until you see the WPS-DVR.
5. Right click WPS-DVR(Ethernet) or WPS-DVR(Serial) and select add to system.

Once you have added the object to your program, you have to setup the parameters for the module.

6. Right click on the object and select *Properties*. Then select I/O Assignment from the left hand pane. Here you should verify that the Serial or IP settings are correctly set on the I/O tab. Also, for the Ethernet version, make sure to fill out the parameter values on the properties tab.
7. Next select Audio from the left hand pane and verify that this is NOT defined as a distributed audio source.



Signal and Parameter Descriptions

Digital Inputs

[dvr_n0] – [dvr_n16]	Numeric camera selection
[dvr_four_window]	Selects the 2x2 grid camera display on the monitor
[dvr_nine_window]	Selects the 3x3 grid camera display on the monitor
[dvr_sixteen_window]	Selects the 4x4 grid camera display on the monitor. (For 16 input DVRs)
[dvr_star_mark]	Functions as the */Mark button on the IR remote
[dvr_pound_code]	Functions as the #/code button on the IR remote
[dvr_alarm_reset]	Resets alarm output
[dvr_mode]	Toggles through DVR modes
[dvr_sequence]	Toggles video output between static output and sequence output
[dvr_call]	Pulse for this DVR function
[dvr_search]	Displays the on-screen search menu
[dvr_record]	Pulse for this DVR function
[dvr_scan-] [dvr_scan+]	Scans forward or backwards during playback
[dvr_single_step]	Advances one frame at a time during playback
[dvr_play_pause]	Toggles playback between play and pause
[dvr_stop]	Stops playback
[dvr_copy]	Displays the on-screen copy menu
[dvr_menu]	Displays the on-screen system menu
[dvr_escape_ptz]	Leaves camera PTZ mode
[dvr_mute_next]	Pulse for this DVR function
[dvr_x2_goto]	Pulse for this DVR function
[dvr_up-backspace]	Functions as the Up/BS button on the IR remote
[dvr_down_delete]	Functions as the down/DEL button on the IR remote
[dvr_left] [dvr_right]	Functions as the Left or Right arrow keys on the IR remote
[dvr_enter]	Functions as the enter key on the IR remote
[dvr_volume+] [dvr_volume-]	Raises or lowers the audio output level
[dvr_minus] [dvr_plus]	Pulse for this DVR function
[dvr_main_aux_on] [dvr_main_aux_off]	Pulse for this DVR function
[dvr_call_aux_on] [dvr_call_aux_off]	Pulse for this DVR function
[dvr_up_left] [dvr_down_left]	Functions as the up-left and down-left keys on the IR remote
[dvr_up_right] [dvr_down_right]	Functions as the up-right and down-right keys on the IR remote
[dvr_alarm_out_on] [dvr_alarm_out_off]	Turns the alarm output on or off
dvr_tcpip_client_connected	(Ethernet version only) Route from the connect-f signal of the TCP-IP client symbol for the DVR
dvr_connect	(Ethernet version only) Pulse to begin a telnet connection and login to the DVR.
dvr_disconnect	(Ethernet version only) Pulse to end telnet communication with the DVR

Analog Inputs

dvr_tcpip_status	(Ethernet version only) Route from the TCP-IP client symbol for the DVR. Tracks connection status between the Crestron processor and the DVR.
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Serial Inputs

dvr_rx\$	(Ethernet version only) Connect to the rx\$ line of the tcp-ip client symbol
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Digital Outputs

dvr_tcpip_client connect	(Ethernet version only) Tie to the connect line of the TCP-IP client
[dvr_tcpip_logged_in]	(Ethernet version only) Held high when tcp-ip client is connected and the module has successfully logged in to the DVR
[dvr_tcpip_not_logged_in]	(Ethernet version only) Held high when the module did not successfully log in to the DVR

Serial Outputs

dvr_tx\$	Connect to the tx\$ line of the tcp-ip client or serial comm port
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Parameters (Ethernet Version Only)

ID	Enter the ID of the DVR you want to control. Valid entries are contained in a drop-down list
username	Enter the username of the account to use to log in to the DVR
password	Enter the password of the account to use to log in to the DVR
tcp port	This parameter has only one valid value and is used for SystemBuilder support

Contacting Technical Support**Wirepath™ Surveillance DVR Support**

Phone: (866) 838-5052

Email: Techsupport@snapav.com

Crestron Module and Programming Support

Contact Crestron for all support relating the use of these modules within Crestron programming software.