Partner: Integra
Model: DTR-80.2
Device Type: Receiver/Processor

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Integra DTR-80.2 IP v1.0
CATEGORY:	Receiver/ Processor
VERSION:	1.0
SUMMARY:	This module provides TCP/IP control and feedback for the Integra DTR-80.2.
GENERAL NOTES:	This module provides control for most functions of the Integra DTR-80.2. It also provides true feedback. It should also control the DTR-70.2, DTR-50.2, DTR-40.2, DTR-30.2, DTR-20.2, DHC-80.2 and the DHC-40.2. This module is only for TCP/IP control. All zones share the same tuner. If the iPod menus are not visible on the Net-Tune/Network/USB_Line_*_Text outputs, you need to pulse the Net-Tune/Network/USB_Display input.
CRESTRON HARDWARE REQUIRED:	C2I-COM, C2COM-2/3, ST-COM
MINIMUM CRESTRON PROCESSOR:	2-Series
SETUP OF CRESTRON HARDWARE:	TCP/IP Client Port: 60128d
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A
CABLE DIAGRAM:	N/A

CONTROL:

*_Power_On/Off/Toggle	D	Pulse to turn the power on and off for the desired zone.
*_Input_*	D	Pulse to select the input for the desired zone.
*_Volume_Up/Down	D	Press and hold to adjust the volume level for the desired zone.
*_Tuner_Key_*	D	Pulse to enter the tuner frequency for the desired zone.
Sleep_*	D	Pulse to set the sleep time or turn the sleep timer off.
Front_Panel_Display_*	D	Pulse to set the front panel display brightness.
Menu	D	Pulse to turn the menu on and off.

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Up/Down/Left/Right/Enter	D	Pulse to move through the menus.
Exit	D	Pulse to exit to the previous menu level.
Audio_Out_*	D	Pulse to set the audio output.
Trigger_*_On/Off/Toggle	D	Pulse to turn the output triggers on and off.
Monitor_Out_Resolution_*	D	Pulse to set the monitor output resolution.
Late_Night_*	D	Pulse to set the late night mode.
Re-EQ/Cinema_Filter_On/Off/Toggle	D	Pulse to turn the Re-EQ/Cinema Filter on and off.
Display_Cycle	D	Pulse to cycle through the front panel display text.
Surround_Mode_*	D	Pulse to select the desired surround mode.
Sirius_Password_Key_*	D	Pulse to enter the Sirius parental password.
Net-Tune/Network/USB_*	D	Pulse to control the Internet Radio and network music server.
HD_Radio_Blend_Mode_*	D	Pulse to select the HD Radio Blend mode.
HD_Radio_Program_*(HD*)	D	Pulse to select the HD Radio HD program.
Initialize	D	Pulse to get the initial status.
Connect	D	Set high to cause the TCP/IP Client to connect to the device.
{{TCP/IP_Client_>>_Connect-F}}	D	Digital signal to be routed from the Connect-F output on the TCP/IP Client symbol.
{{TCP/IP_Client_>>_status}}	A	Analog signal to be routed from the status output on the TCP/IP Client symbol.
{{TCP/IP_Client_>>_RX$}}	S	Serial signal to be routed from the RX$ output on the TCP/IP Client symbol.

FEEDBACK:

***_Power_Is_On/Off**	D	High to indicate the current power state for each zone.
_Input_Is_	D	High to indicate the currently selected input for each zone.
***_Volume_Gauge**	A	Analog value indicating the current volume level for each zone. To be displayed using a bar graph on a touch panel.
***_Volume_Mute_Is_On/Off**	D	High to indicate the current volume mute state for each zone.

*_Tuner_Frequency_Text	S	Serial signal indicating the currently tuned channel.
Tuned_Station_<Is/Is_Not>_HD	D	High to indicate whether the currently tuned radio station is an HD station or not.
Sleep_Time_Digital_Gauge	A	Analog value indicating the current sleep time remaining.
Front_Panel_Display_Is_*	D	High to indicate the current front panel display brightness.
Audio_Out_Is_*	D	High to indicate the current audio out setting.
Trigger_*_Is_On/Off	D	High to indicate the current state for each trigger.
Monitor_Out_Resolution_Is_*	D	High to indicate the current monitor output resolution.
Late_Night_Is_*	D	High to indicate the current late night setting.
Re-EQ/Cinema_Filter_Is_On/Off	D	High to indicate the current state for the Re-EQ/Cinema filter.
Surround_Mode_Is_*	D	High to indicate the currently selected surround mode.
Sirius_Password_Text	S	Serial signal indicating the parental password being entered. Will show as the actual numbers being entered.
Sirius_Password_Stars_Text	S	Serial signal indicating the parental password being entered. Will show as stars.
Sirius_Parental_Lock_Password_Is_Needed	D	High to indicate that the channel you are trying to listen to requires a password.
Sirius_ Parental_Lock_Password_Is_Wrong	D	High to indicate that the password entered is wrong.
Sirius_*_Text	S	Serial signals indicating the channel name, channel number, title, artist and category for the currently tuned Sirius station.
Net-Tune/Network/USB_Is_*	D	High to indicate the current Net-Tune/Network/USB transport status.
Net_Tune/Network/USB_Line_*_Text	S	Serial signals displaying the Net-Tune/Network/USB menus.
Net_Tune/Network/USB_Cursor_Position_Is_Line_*	D	High to indicate which Net-Tune/Network/USB menu line is currently highlighted.
Net_Tune/Network/USB_*_Text	S	Serial signals indicating the artist, album, title, time and track for the currently playing on the Net-Tune/Network/USB.
Net_Tune/Network/USB_Repeat_Is_*	D	High to indicate the current repeat status for the Net-Tune/Network/USB.
Net_Tune/Network/USB_Shuffle_Is_*	D	High to indicate the current shuffle status for the Net-

		Tune/Network/USB.
HD_Radio_Blend_Mode_is_*	D	High to indicate the current HD Radio Blend mode.
HD_Radio_Program_Is_Program_*(HD*)	D	High to indicate the currently selected HD Radio program.
HD_*_Text	S	Serial signals indicating the channel name, channel number, title, artist and radio details for the currently tuned HD station.
HD_Radio_Program_*(HD*)_Is_Available	D	High to indicate the HD radio programs available for the currently tuned HD Radio station.
Initialize_Busy	D	High to indicate that the module is getting the initial status from the receiver.
Connected	D	High to indicate that the TCP/IP Client is connected to the device.
Connection_Status_Text	S	Serial signal indicating the current connection status.
{{Connect_>>_TCP/IP_Client}}	D	Digital signal to be routed to the Connect input on the TCP/IP Client symbol.
{{TX$_>>_TCP/IP_Client}}	S	Serial signal to be routed to the TX$ input on the TCP/IP Client symbol.

PARAMETER:

Port Number	P	Port number for the TCP/IP Client symbol to connect to. Default is 60128d.

TESTING:

OPS USED FOR TESTING:	4.003.0015
SIMPL WINDOWS USED FOR TESTING:	3.03.14
CRESTRON DB USED FOR TESTING:	24.05.003.00
DEVICE DB USED FOR TESTING:	32.05.002.00
SYMBOL LIBRARY USED FOR TESTING:	712
SAMPLE PROGRAM:	Integra DTR-80.2 IP v1.0 Demo
REVISION HISTORY:	V. 1.0 – Original Release