

Partner: B&K Components
Model: CT610
Device Type: 6-Zone Receiver



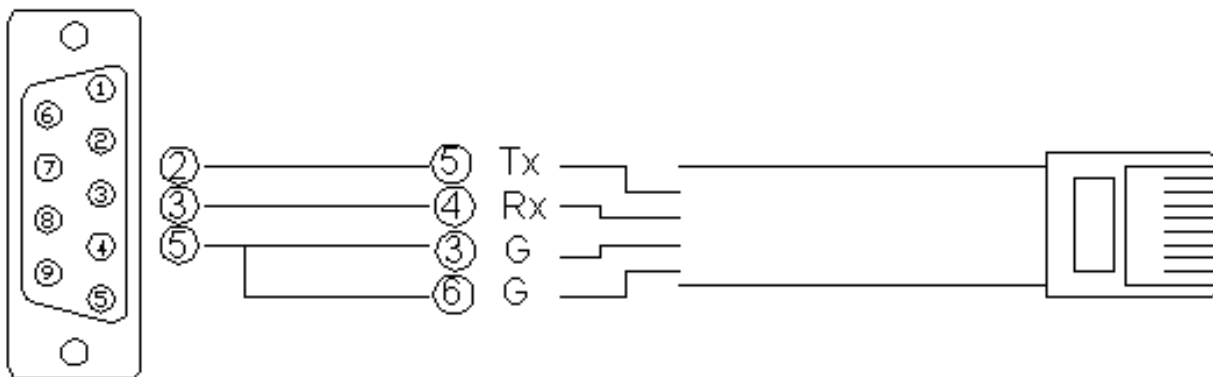
GENERAL INFORMATION

SIMPLWINDOWS NAME:	B&K CT610 Receiver.umc
CATEGORY:	Receiver/ Processor
VERSION:	1.0
SUMMARY:	This module will control the B&K CT610 Receiver.
GENERAL NOTES:	<p>This module will control most of the CT610's general "runtime" functions. The module is to "model" the CT610's (6) stereo zones plus master ONLY. This module will operate not only the CT610's "physical" zones of 0, A, B, C, D, E, F but also pre-programmed "LOGICAL" zones set up with B&K's BKSuite software. This will allow the control of up to (3) CT610's. Each will use its own instance of this module with a dedicated com port. The CT610's receive identifier will ALWAYS be "00".</p> <p>True feedback is provided for most functions except mute. When any command is sent to the receiver, this module will acknowledge that the command was processed and the corresponding feedback will be reflected at the outputs of this module.</p> <p>This module also provides a serial text output that somewhat emulates the CT610's front panel display. It will provide most of the "general" text indications of the CT610's front panel.</p> <p>When the Poll_Enable input is pulsed, the receiver will be polled to determine the receiver's current firmware and identify its "LOGICAL" zones. If the firmware is identified as v2.52 or higher, the CT610 will be sent the "RS232 On command to enable communications. If the firmware is 2.51 or earlier, an error message will be sent via the Text_Display\$ indicating the need for a firmware upgrade. There are separate polling inputs that are to be used to poll each "Logical" zone for its current settings. These polling inputs can be associated to touch panel control pages for each zone. You would pulse the desired zone's polling input upon activation of its corresponding control page. You would then disable polling at other times.</p> <p>NOTE: This module is dependent on feedback from the device. You cannot comment out the FROM_DEVICE\$ serial input. This serial signal must be used for proper module operation.</p>
CRESTRON HARDWARE REQUIRED:	CNCOMH-2, CNXCOM-2, ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1 H/W Hand Shaking: None

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VENDOR FIRMWARE:	V2.52 or higher
VENDOR SETUP:	RS232 on (AE=2). Done automatically
CABLE DIAGRAM:	CNSP-593



CONTROL:

	D	Pulse to change receiver's current power state
Zone_<ZoneID>_AudioIn_<Input>	D	Pulse to select the current zone's audio input
Zone_<ZoneID>_Video_Src_<+/->	D	Pulse to increment current zone's video input source
Zone_<ZoneID>_Tune_<+/->	D	Pulse to increment tuner's RF frequency
Zone_<ZoneID>_Station_<+/->	D	Pulse to increment tuner's station presets
Zone_<ZoneID>_Volume_<Up/Down>	D	Assert to adjust current zone's volume level up or down
Zone_<ZoneID>_Bass_<Up/Down>	D	Assert to adjust current zone's bass level up or down
Zone_<ZoneID>_Treble_<Up/Down>	D	Assert to adjust current zone's treble level up or down
Zone_<ZoneID>_Mute_<On/Off>	D	Pulse to enable/disable current zone's audio mute
Zone_<ZoneID>_Loudness_Toggle	D	Pulse to enable/disable current zone's audio loudness

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Zone_<ZoneID>_Presets_<Up/Down>	D	Pulse to increment current zone's global presets
Zone_<ZoneID>_Preset_<0-9>	D	Pulse to select discrete preset in current zone
Zone_<ZoneID>_Tuner_Direct	D	Pulse to select current zone tuner's direct frequency entry via numeric keypad
Zone_<ZoneID>_Key_<0-9,10+>	D	Pulse selection for direct numeric entry for tuner.
Poll_Enable	D	Pulse to poll device for current firmware version and logical zones
Poll_Zone_<ZoneID>	D	Pulse to poll device for current zone settings
From_Device\$	S	Serial data signal coming from a 2-way RS232 port.

FEEDBACK:

Zone_<ZoneID>_Power_<On/Off>_FB	D	True feedback indicating zone's current power state
Zone_<ZoneID>_AudioIn_<Input>	D	True feedback indicating zone's current audio input
Zone_<ZoneID>_Loudness_<On/Off>_FB	D	True feedback indicating Zone's current audio loudness state
<ZoneID>_VSource	A	Analog value indicating zone's current video source (0-9) 0=Direct
<ZoneID>_Volume_Bar	A	Analog value indicating zone's current Volume level. To be sent to a touch panel's bar graph
<ZoneID>_Bass_Bar	A	Analog value indicating zone's current Bass level. To be sent to a touch panel's bar graph
<ZoneID>_Treble_Bar	A	Analog value indicating zone's current Treble level. To be sent to a touch panel's bar graph
Text_Display\$	S	True feedback indicating receiver's Multi channel input is active
To_Device\$	S	Serial data signal to be sent to a 2-way RS232 port.

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**TESTING:**

OPS USED FOR TESTING:	PRO2 Cntrl Eng [v3.088 (Release)]
COMPILER USED FOR TESTING:	2.00.31
SAMPLE PROGRAM:	B&K CT610 Receiver Demo Pro2.smw
REVISION HISTORY:	v1.0