

Description

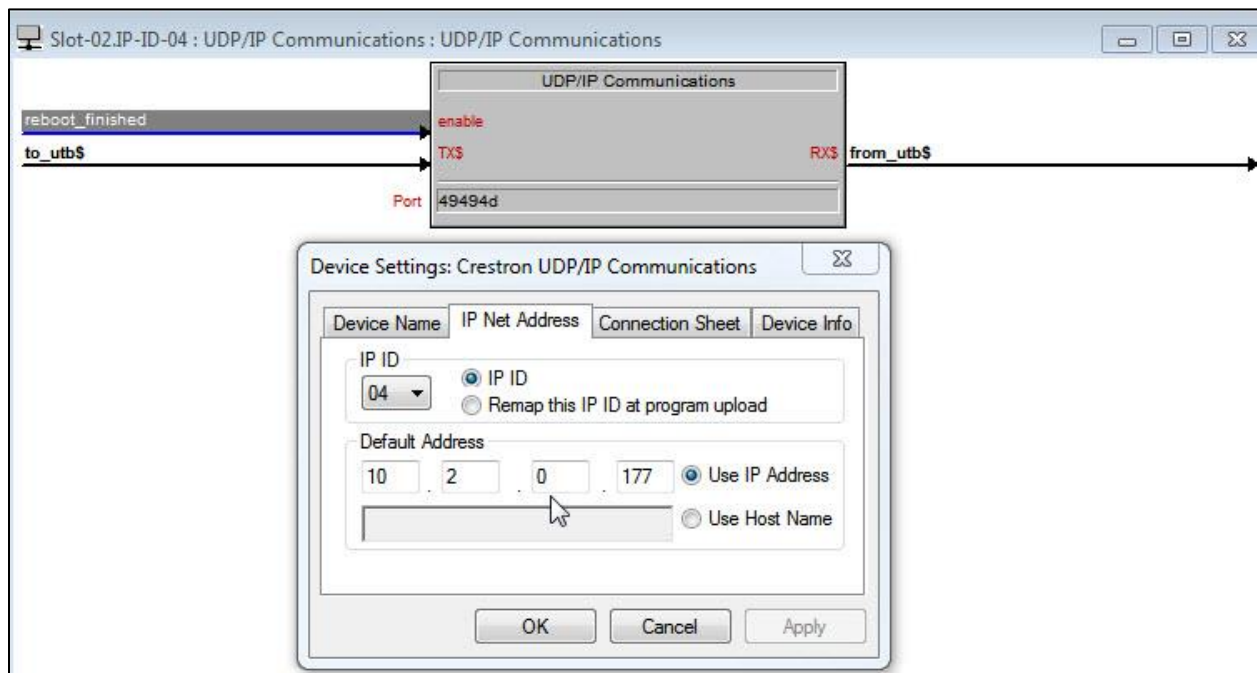
This module allows standalone control of the Under Table Box. Controls include identify unit, save and load presets, phantom power, logic outputs, and logic input states.

Supported Processors

This module may be used with any 2-Series or 3-Series Crestron processor with Ethernet.

Communication setup

The UTB communicates with the control system via UDP/IP communications. For each UTB place a UDP/IP symbol in the program. On the UDP/IP symbol set the IP address of the UTB, and set the port to 49494.



Unsolicited Feedback

The UTB supports unsolicited feedback for logic input state. You must subscribe and tell the UTB where to send event notifications. To do this, initialize the `event_notification_ip_address` to the control system IP address, and initialize the `event_notification_udp_port` to 49494. After the `event_notification_ip_address`, `event_notification_udp_port` are set and the UDP/IP Client is enabled pulse [\[register_event_notification\]](#) to tell the UTB where to send updates.

The UTB does not provide any other unsolicited feedback. Upon enabling the UDP/IP connection it is recommended to pulse [\[request_settings\]](#) to query all values.

Inputs, Outputs, and Parameter Descriptions

Digital Inputs

[find_unit]	Pulse to make the UTB's lights flash for 5 seconds.
[identify_unit_on]	Pulse to make the UTB lights flash. The lights will remain flashing until [identify_unit_off] is pulsed.
[identify_unit_off]	Pulse to make the UTB lights stop flashing.
[save_preset]	Pulse to save the preset as defined by the [preset_number] input. This stores the UTB configuration including phantom power settings and logic outputs.
[load_preset]	Pulse to load the preset as defined by the [preset_number] input. After loading a preset, the module will query the UTB for all values.
[channelx_phantom_power_on]	Pulse to turn on phantom power for the specified channel.
[channelx_phantom_power_off]	Pulse to turn off phantom power for the specified channel.
[logic_outputx_on]	Pulse to set the specified output to logic high.
[logic_outputx_off]	Pulse to set the specified output to logic low.
[register_event_notification]	Pulse to send the UTB a command that will cause the UTB to send unsolicited changes to the specified IP address and port.
[request_settings]	Pulse to request the current state for all values. Typically pulsed after the UDP socket is opened, and the program is ready to receive feedback.

Analog Inputs

[preset_number]	Analog input used to save and recall presets. Used in conjunction with [save_preset] and [load preset]. There are ten presets available, valid ranges are 0d-9d
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Serial Inputs

event_notification_ip_address\$	String input that should be set to the Crestron Processors IP address. This will tell the UTB where to send unsolicited data to.
event_notofication_udp_port\$	String input that should be set to the UDP/IP port so the Crestron system can receive notifications from the UTB. This port can be a port of your choosing.
from_utb\$	Tie rx\$ of UDP/IP communications symbol.

Digital Outputs

[identify_unit_on_fb]	High when the UTB is in identify mode.
[identify_unit_off_fb]	High when the UTB is not in identify mode.
[preset_saved_fb]	Pulses to indicate a preset saved acknowledgement has been received from the UTB.
[preset_loaded_fb]	Pulses to indicate a preset loaded acknowledgement has been received from the UTB.
[channel_phantom_power_on_fb]	High when the corresponding channels phantom power is on.
[channel_phantom_power_off_fb]	High when the corresponding channels phantom power is off.
[logic_outputx_on_fb]	High when the corresponding output channels logic is high.
[logic_outputx_off_fb]	High when the corresponding output channels logic is low.
[logic_inputx_on_fb]	High when the corresponding input logic input is high.
[logic_inputx_off_fb]	High when the corresponding input logic input is low.
[event_notification_ack_fb]	Pulses to indicate an event notification registration acknowledgement has been received from the UTB.
[register_event_notification_fb]	
[request_settings_busy_fb]	

Analog Outputs

[loaded_preset_number_fb]	Analog to indicate what the last loaded preset is.
[saved_preset_number_fb]	Initialize to indicate a preset saved acknowledgement has been received from the UTB.

Serial Outputs

to_utb	Tie tx\$ of UDP/IP communications symbol.
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Testing Environment

EX-1280C	v0.201_build4
EX-8ML	v1.000
ControlSpace Designer	v5.0.0.805
Crestron AV3	v1.501.2867.26681
SIMPL Windows	4.07.03
Device Database	86.05.003.00
Crestron Database	63.06.002.00

Distribution Files

Bose_EX-8ML_UTB_v1.0.umc	User module containing the UTB logic.
Bose_UTB_event_notification_processor_v1.0.usp	SIMPL+ module for use inside the EX-8ML UTB module.
Bose_UTB_event_notification_processor_v1.0.ush	SIMPL+ header for use inside the EX-8ML UTB module.

Revision History

V1.0 – Initial Release