

SIMPLWINDOWS NAME: Biamp PMX84 Switching module

CATEGORY: Matrix Switcher

VERSION: 1.0

SUMMARY: Provides control of switching functions on PMX84

GENERAL NOTES: This module will provide control and presets for the switching functions of the PMX84. routes can be controlled manually or through presets. Presets are stored in the Crestron system. All inputs are momentary - If inputs are maintained (latched) the module will not function properly. Multiple inputs cannot be jammed at the same time. After any take or preset selection, the module will automatically poll the unit for a status update.

The module functions as follows:

1. Choose an input.
2. Choose an output.
3. Choose an action.
4. Press take.

To recall presets:

1. Select a preset button.

To store presets:

1. Select the preset to be stored - to current configuration will be recalled.
2. Adjust the routes with the manual adjustments.
3. Press store_preset.

The device number must match the switcher being controlled. See below for further information.

CRESTRON HARDWARE REQUIRED: ST-COM, CNXCOM, CEN-COM

SETUP OF CRESTRON HARDWARE: Baud Rate - 2400, 9600 (2400 is device default)
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: None

VENDOR SETUP: The device number must be set using the BiampWin software.

CABLE NUMBER: CNSP-121

CONTROL:

| | | |
|------------------------|---|--|
| OUTPUT1-8 | D | Selects an input for manual adjustment |
| OUTPUTA-D | D | Selects an output for manual adjustment |
| TOGGLE | D | Selects toggle action for manual adjustment |
| ON | D | Selects on action for manual adjustment |
| OFF | D | Selects off action for manual adjustment |
| TAKE | D | Performs selected route/action |
| POLL_FOR_STATUS | D | Polls unit for real feedback of current status |
| PRESET1-10 | D | Selects a preset to be recalled |

| | | |
|---------------------|---|---|
| STORE_PRESET | D | Stores currently selected preset with current status values |
| PMX84-RX\$ | S | Serial data string from PMX84 - routed from RX\$ of RS-232 port |

FEEDBACK:

| | | |
|----------------------------|---|---|
| INPUT1-8_FB | D | Feedback of selected input for manual adjustment |
| OUTPUTA-D_FB | D | Feedback of selected output for manual adjustment |
| TOGGLE_FB | D | Feedback of toggle action for manual adjustment |
| ON_FB | D | Feedback of on action for manual adjustment |
| OFF_FB | D | Feedback of off action for manual adjustment |
| OUTPUTA_INPUT1-8_FB | D | Real feedback of input/output status |
| OUTPUTB_INPUT1-8_FB | D | Real feedback of input/output status |
| OUTPUTC_INPUT1-8_FB | D | Real feedback of input/output status |
| OUTPUTD_INPUT1-8_FB | D | Real feedback of input/output status |
| PRESET1-8_FB | D | Feedback of currently selected preset |
| TO_PMX84\$ | S | Serial data string to be routed to the PMX84 - to be routed to TX\$ of RS232 port |

PARAMETERS:

| | | |
|---------------------|---|---|
| DEV_NUM_HIGH | P | High digit of device number of the unit (see below) |
| DEV_NUM_LOW | P | Low digit of device number of the unit (see below) |

The Biamp PMX84 uses a device number which is setup through the BiampWin software. The range of values is from 0-8. the dev_num_high and dev_num_low values are represented in the following chart:

| | |
|-------------------|-----------------------------------|
| Device Number 1 - | DEV_NUM_HIGH=30 DEV_NUM_LOW=31 |
| Device Number 2 - | DEV_NUM_HIGH=30 DEV_NUM_LOW=32 |
| Device Number 3 - | DEV_NUM_HIGH=30 DEV_NUM_LOW=34 |
| Device Number 4 - | DEV_NUM_HIGH=30 DEV_NUM_LOW=38 |
| Device Number 5 - | DEV_NUM_HIGH=31 DEV_NUM_LOW=30 |
| Device Number 6 - | DEV_NUM_HIGH=32 DEV_NUM_LOW=30 |
| Device Number 7 - | DEV_NUM_HIGH=34 DEV_NUM_LOW=30 |
| Device Number 8 - | DEV_NUM_HIGH=38 DEV_NUM_LOW=30 |

Please see the sample/test program for an example of this implementation.

OPS USED FOR TESTING: 5.10.11x
COMPILER USED FOR TESTING: SimplWindows Version 1.40.07
SAMPLE PROGRAM: PMX84TEST REVA.SMW
REVISION HISTORY: None