

## Features

- Stronger signal strength
- Increased electrical noise resistance
- Utilizes standard electrical wiring - retrofits easily in existing homes
- Pass-through electrical plug
- Compact and pleasing packaging

## UPB Benefits

- Higher reliability
- Lower system cost
- Individual home selective (no crossover/interference from adjacent homes)
- Phase coupling not required except in very large homes
- Easily configurable

## Applications

- Control devices that need a contact closure to activate, for example a gas fireplace
- Detect closures or voltages from devices that provide these indications when triggered by an event, such as a relay closure from an alarm system when an alarm is activated
- Control functions based upon time/event programming when connected to Web Mountain NetPlace server



The **CM-01 UPB Plug-in Three Input / Dual Output (Combination) Module** allows for both the detection of a contact closure, or the delivery of a contact closure, depending upon the application.

The input/output module plugs into a standard AC outlet. For the application where a device is to be controlled by providing a contact closure (such as a gas fireplace), the fireplace control leads are attached to the connector on the bottom of the unit. For the application where a device provides a closure or voltage to be detected, again the leads are attached to the connector at the bottom of the unit. The CM-01 provides two contact closures and three short or voltage detect circuits.

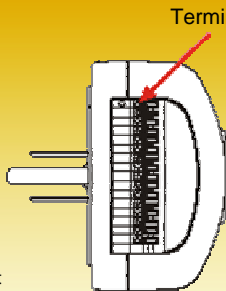
The physical design of the appliance module provides optimum flexibility by the use of a pass-through electrical plug with a non-controlled outlet on its face, resulting in no loss of outlet availability for other household devices.

















The key to the combo module's function is the Universal Powerline Bus technology for communication applications. Use of standard electrical wiring for communication transmission is possible due to lower noise levels, stronger signal strength and improved reliability surpassing technologies such as X-10, CeBus and others. UPB technology also allows enough individually addressable devices to control the largest residential environment—usually without the need for phase coupling and without affecting or being affected by adjacent home environments.

# Model CM-01 UPB Plug-in Three Input/ Dual Output Module

**Pin # Description**

- 1 Output 1
- 2 Output 1 return
- 3 Output 2
- 4 Output 2 return
- 5 Input 1: phoneline
- 6 Input 1: common
- 7 Input 1: 4-5V sense
- 8 Input 2: 4-5V sense
- 9 Input 2: common
- 10 Input 2: contact input
- 11 Input 3: -30dBV audio sense
- 12 Input 3: -10dBV audio sense
- 13 Input 3: audio/current sense detect
- 14 Input 3: current/voltage sense input
- 15 Input 3: current/voltage sense common
- 16 Input 3: contact input


**Terminal:**

- 1  ] Output #1
- 2  ]
- 3  ] Output #2
- 4  ]
- 5  ] Input #1,phoneline
- 6  ] Input #1,voltage sense
- 7  ]
- 8  ] Input #2,voltage sense
- 9  ] Input #2,contact closure
- 10  ]
- 11  ] Input #3,-30dBV audio sense
- 12  ] Input #3,-10dBV audio sense
- 13  ] Input #3,current sense (series doorbell)
- 14  ]
- 15  ] Input #3,voltage sense
- 16  ] Input #3,contact closure


**Installation**

Plug the module into a wall outlet, then connect input and/or output devices to the leads as shown on the diagram to left.

Specifications	
Model Name	Combination Input/Output Module
Model Number	CM-01
Case	Plug-in module with AC pass-through and 5 sets of contacts
Dimensions	Approx. 1.375"D X 2.375"W X 3.25"H
Net Weight	4 oz.
Protocol	UPB
Addressing	250 network codes; 250 individual device codes
Input Voltage	120 VAC +/- 10%, 60 Hz, 3 prong
Output	Dual contact closure delivery circuits (< 10 ohms) Used to control fireplaces, garage doors, alarms, etc.
Input sensors	Three contact closure or voltage detect circuits (< 10 VDC) Used to detect alarms, telephone ringing, doorbell, etc. Max 15 A, pass-through
Certifications	UL 1950, FCC Part 15, Class B
Operating Temperature	0° to +50° C, -30° to 120° F

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