mindshare by CSS

AUXILIARY I/O UNIT

DATA SHEET

FEATURES:

The Mindshare 40218-IO Auxiliary I/O Unit is used to support remotely controlled relays, and monitor digital inputs across an IP network. Possible applications include switching analog tone lines from one Mindshare Radio Interface card to another, opening doors, turning on landing lights, sensing if doors are open, voter system monitoring and control, and any other remote control and monitoring operation.

The 40218-IO is a rack mountable device and includes rack ears. It can be located anywhere an I/O capability is required in the system. Circuits connected through the relays are isolated from the circuitry of the board supporting Dual Normally Open and Normally Closed connections per channel. Diode Blocked Inputs are referenced to the ground of the board or inputs can be opto-coupled as determined by DIP switch settings. Control of the relays is done through reliable IP network communication utilizing UDP for speed and simplicity. When a relay is actuated by a console position, notification is sent to all consoles of the change of state of the relay so that all consoles can reflect the state of the device. Relays can be set to actuate in a Momentary, Latched, and Timed manner. Input changes are simultaneously broadcast to all consoles of state changes.

Each channel has front panel indicators showing the state of each relay as well as the state of the inputs. An RS-232C port on the front of the device provides for basic IP setup and future firmware updates are completed through the network connection. Connections to the relays and inputs of the card are done through the 25 pair connectors which can then be conveniently punched down to an existing jack field.

SPECIFICATIONS:

Relays: R1-R18: 18 DPDT relays are available.
Rated Load: 0.3A at 125VAC, 1A at 30VDC.
Contact Material: Ag (Au clad).
Maximum Carrying Current: 1A.
Maximum Operating Voltage: 125VAC.
Maximum Switching Capacity: 37.5VA, 30W.
Minimum Permissible Load: 10uA at 10mvDC.

Inputs: 1-18 Diode Blocked or Optocoupled inputs, 12V, 24V or 48V.
DC Blocking Voltage: 50V.
RMS Reverse Voltage: 35V.
Min Low Voltage: 0.5V.
Network Connection: Single, full duplex Ethernet.
Operating Temperature Range: 0 to +50° C.
Power Requirements: 12 to 48 Vdc at 1A maximum.

MADE in the USA

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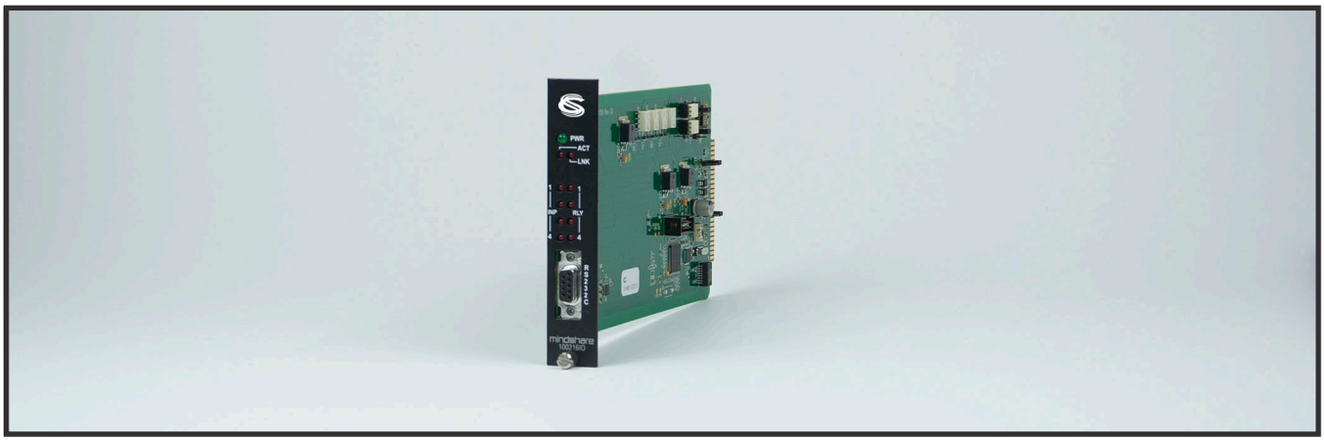
AUXILIARY I/O CARD

DATA SHEET



FEATURES:

The Mindshare Auxiliary I/O Card is used to support remotely controlled relays, and monitor digital inputs across an IP network. Possible applications include switching analog tone lines from one Mindshare Radio Interface card to another, opening doors, turning on landing lights, sensing if doors are open and any other remote control and monitoring operation.

The card has the same form factor as the Mindshare Radio card and can be used in the 100016MC Card Cage, or standalone in its own enclosure like the 100101LT. This allows them to be located anywhere an I/O capability is required in the system. Circuits connected through the relays are isolated from the circuitry of the board, supporting both Normally Open and Normally Closed connections. Diode Blocked Inputs are referenced to the ground of the board or through opto-couplers as determined by DIP switch and jumper settings. Control of the relays on the card is done through acknowledged network communication utilizing UDP for speed and simplicity. When a relay is actuated by a console position, a Multicast broadcast is sent out to notify all consoles of the change of state of the relay. Relays can be set to actuate in a Momentary, Latched, and Timed manner. Input changes are sent using the same Multicast broadcast scheme employed to alert parallel consoles of relay state changes.

Each card has front panel indications showing the state of each relay as well as the state of the inputs. An RS-232C port on the front of the card provides for firmware updates should they be required at a later time. Connections to the relays and inputs of the card are done through the DB25 connector on the back of the 100016MC backplane, or the 100101LT enclosure.

SPECIFICATIONS:

Relays: R1-R4: 3 DPDT and 1 SPDT or input.
Rated Load: 0.3A at 125VAC, 1A at 30VDC.
Contact Material: Ag (Au clad).
Maximum Carrying Current: 1A.
Maximum Operating Voltage: 125VAC.
Maximum Switching Capacity: 37.5VA, 30W.
Minimum Permissible Load: 10uA at 10mvDC.

Inputs: 1-4 Diode Blocked or 1-2 Optocoupled inputs, 12V, 24V or 48V.
DC Blocking Voltage: 50V.
RMS Reverse Voltage: 35V.
Min Low Voltage: 0.5V.
Network Connection: Single, full duplex Ethernet.
Operating Temperature Range: 0 to +50° C.
Power Requirements: 12 Vdc at 0.5A maximum.

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