

## MUXPAD II – RF POLLING RADIO



### Features

- Serial interface to addressable Fire Alarm Control Panel (FACP) and/or dry contacts for conventional fire panels
- Eight zone supervised EOL inputs with expansion capability for external 32-zone supervised inputs
- Mix or match Muxpad II with Digitize DGM panels
- Form C Relay on Muxpad II can be turned on/off or momentary with relay control option on the System 3505.
- AC and/or DC power
- Step-down transformer and built-in battery charger
- Monitors alarm, trouble, and supervisory states
- Red steel enclosure with key lock
- Watchdog timer
- Jumper selectable to monitor FACP, 8-zones, or both
- AC fail and low-battery supervision
- NFPA-72 Compliant; FM approved

### Product Description

The Muxpad II-RF is a Data Gathering Module (DGM) that is part of the Digitize System 3505 multiplex proprietary alarm monitoring system. For a complete operating system, a System 3505 with the Multiplex option is needed.

The Muxpad II-RF board contains an isolated RS-422/485 serial port, an RS-232 serial port, a 5-volt switching regulator, a single Form C relay, a watchdog timer, battery backup with charger, step-down transformer, power supply, various support systems (such as 128K EPROM, etc.), and zone measurement circuitry with ground fault detection.

The Muxpad II-RF is used to monitor addressable and non-addressable FACPs. The Muxpad II-RF collects the supervised messages from the FACP serial printer port. As each message is transmitted by the FACP, the Muxpad II-RF gathers the text and interprets it into a more usable format for the System 3505. The new messages are then relayed to the System 3505 via polling radio.

Upon activation of any new condition, the Muxpad II-RF communicates with the System 3505 to advise new conditions, as well as the English text message provided by the FACP. In the event of a data line error, the Muxpad II-RF retains alarm information until communication is reestablished to the System 3505. Upon receiving a command from the System 3505, the Muxpad II-RF can reset\* the FACP. Other commands include the Bell On/Off\*, FACP local Ack\*, as well as Control Module On/Off signals. \*In selected FACP panels. The Muxpad II-RF may also be used to monitor end-of-line supervised dry contact points of conventional fire panels.

The Muxpad II-RF uses 8 local zones, provided on board, or an optional 32-zone external plug-in board (in a separate enclosure). FACP Jumpers and/or Zones determine which system will be enabled by the software. When the FACP jumper is installed the Muxpad will interpret the serial port data it receives into data to be relayed to the System 3505. Placing a jumper on the zone connector will allow the use of dry contact zones. These zones are EOL resistor supervised and can monitor Alarm, Trouble, and Secure states of the zones. When both jumpers are closed, both Zones and FACP will be available. The 8 local zones are used in absence of the 32-zone board.

The Muxpad II-RF is normally powered by through the internal step-down transformer (12VDC back-up). Loss of AC power and low battery voltage conditions are reported to the System 3505 for display.



# SPECIFICATIONS

## Enclosure

Red steel enclosure with door and CAM lock

## Enclosure Dimensions

Height: 19.5 in

Width: 18.5 in.

Depth: 6.1 in.

## Net Weight (Approx.)

41 lbs.

## Power

- DC operating power consumption: 2.36 Watts (max.)
- DC operating current: 175mA (max.)

## Communications Method to System 3505

Radio polling

## LED Indicators

MUX LED illuminates when the Muxpad II is transmitting to the System 3505

FACP LED illuminates when the Muxpad II is receiving a data character from the serial port of the FACP

## Environmental

Operating Temperature: 0°-50° C

Storage Temperature: 0°-50° C

Operating Humidity: 0-90%, non condensing

Storage Humidity: 0-90%, non condensing

Part Number 425126-	Interface	Part Number 425156-	Interface
1011	FD-ID, FC-IDA, FC-IDX	1030	FCI-7100 Networked
1012	Notifier 1010. 2020	1031	FCI-E3 Networked
1013	Spectronics	1032	FCI-E3
1014	FCI 7200	1033	EST-2 Networked
1015	Gamewell Flex 500	1034	Notifier 640
1016	Gamewell Flex 630	1035	Notifier 3030
1017	Gamewell Flex 630 w/ Annunciator	1036	Gamewell Flex 600 w/Annunciator
1018	Simplex 4100/4200	1037	Gamewell Flex 600
1021	EST-2	1038	Gamewell Flex 600 Series
1024	Firecom	1039	Gamewell Flex 600 w/Annunciator
1025	EST-3	1040	Notifier 3030
1027	Mircom	1031	FCI-E3 Networked
1028	EST IRC-3	1032	FCI-E3
1029	FCI-7100	1031	FCI-E3 Networked

## NOTES:

1. When FCI interface is ordered, the Muxpad II automatically detects which FCI panel is connected, once the proper panel is selected at the System 3505
2. When Notifier interface is ordered, the Muxpad II automatically detects which Notifier panel is connected once proper panel is selected at the System 3505
3. Connection shown above is typical of any interface.
4. For Muxpad II with RS-485, Fiber Optic or Audio Modem Interfaces, see cut sheet 750197-0001