KCi
Kingfisher Company, inc.

MCR² & MCR³
Multi-Communication Receiving, Reporting, Repeating Console

FM APPROVED

Features:

- Backward compatible with existing Kingfisher Radio Transmitters:
    - STAR
    - KFAPT & KFAPT-S
    - KFRTI-8S
    - KF1S/KF3S
    - IRAC & IRAC-S
- Connects to multiple workstations with MCR² Software
- Electrically isolated boards permitting hot swapping
- Unlimited account capacity
    Note: NFPA limits capacity to 500 accounts per Frequency.
- 12VDC battery backup.
- 19" Rack or desktop mounting.
- Boards accessible through front door on both 19" rack and desktop versions.
- Repeater option available (MCR³)

KCi # 99440-D
Vertical Mount

Description:

The Kingfisher MCR² Console is designed for receiving, monitoring, and reporting of events sent from Kingfisher transmitters. The Kingfisher MCR³ Repeater is designed for monitoring, receiving, reporting, and repeating of events sent from Kingfisher transmitters to the Kingfisher Receivers.

An integral receiver is provided for multipoint wireless communication at distances up to 25 miles. The 25 miles must be "line of sight". Distances greater than 25 miles or that are not "line of site" will be covered by Repeaters. Hard-wired signals can be interfaced to transmitters so many different types of events can be decoded and annunciated by the Receiver. Fire Alarm, Security, HVAC, Medical and any other type of event for a building system can be monitored, received and annunciated.
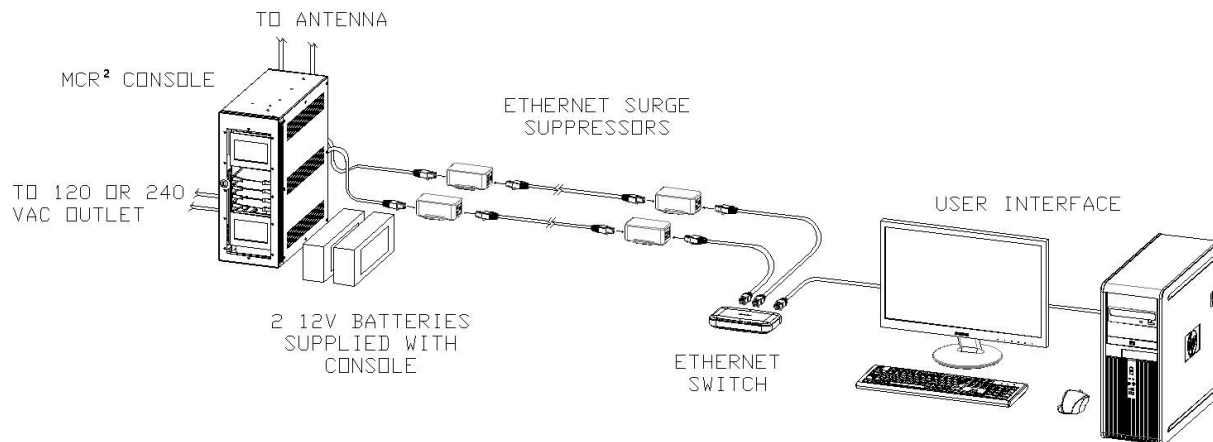
Annunciation occurs in several ways. Console comes equipped with LCD displays. Audible piezo is also integral to the unit. Additionally the annunciation occurs through a Graphical User Interface Software.

The Enterprise configuration of the MCR² Console provides a workstation server that can be networked with "client" workstations allowing multiple users to interface with one or more consoles.
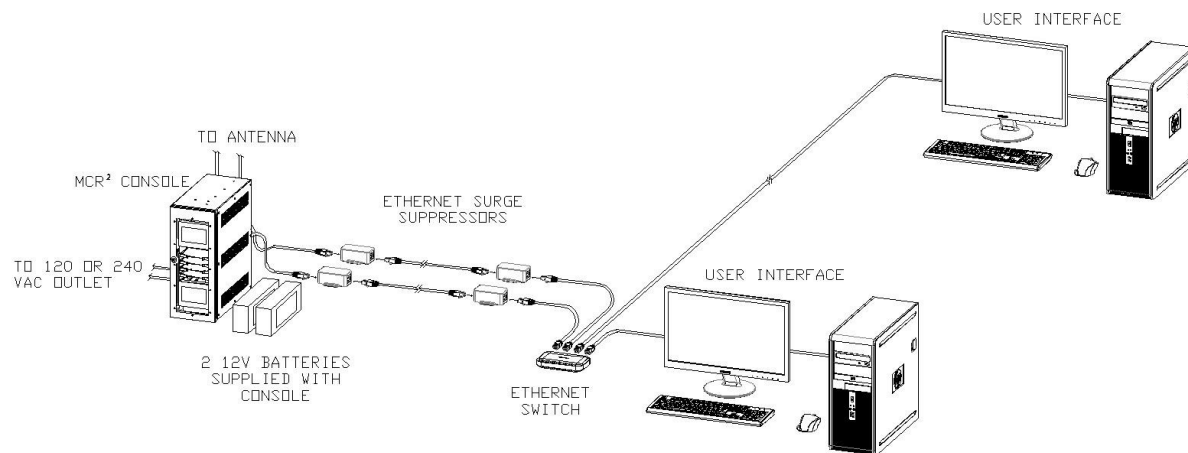
The Kingfisher MCR³ Repeater will store-and-forward events using a single frequency.
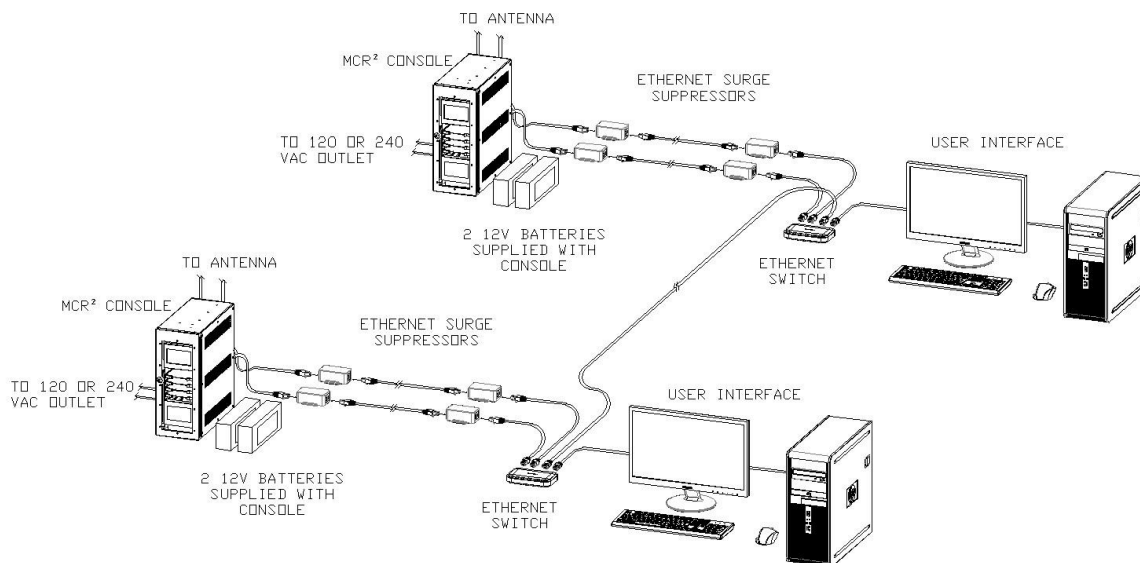
Options:

Standard Configuration

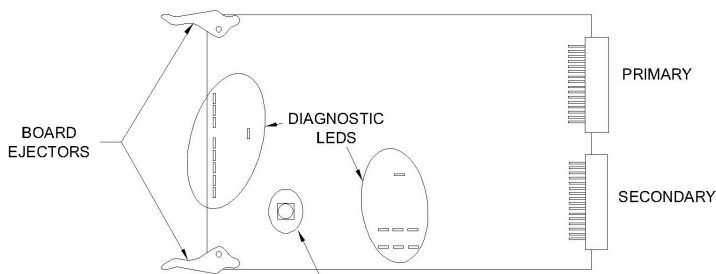## Enterprise Configuration (Single Console)

Enterprise Configuration (Multiple Consoles)

Kingfisher Company, inc. *81 Old Ferry Road - Lowell, MA 01854*
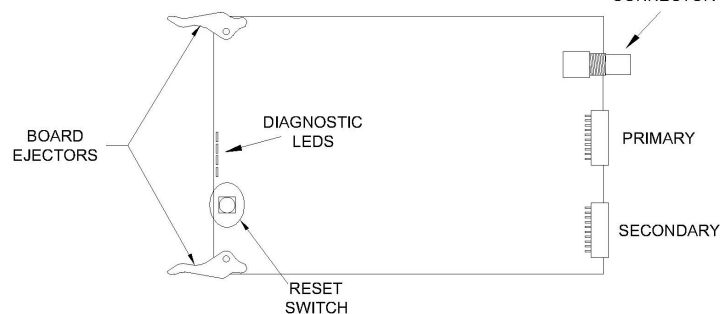*Phone: 978-596-0214 Fax: 978-596-0217 www.kfci.com*

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Controller Board:

- On board diagnostic LEDs
- Rack mount locking tabs for positive alignment and secure fit.
- Automatically configured for primary or secondary installation. No special tools or programming.
- Flash firmware upgradable

RF Tone Board:

- On board diagnostic LEDs
- Rack mount locking tabs for positive alignment and secure fit.
- Automatically configured for primary or secondary installation. No special tools or programming.
- Flash firmware upgradable

MCR^2 & MCR^3 Specifications:

Signal Format:	Kingfisher format std.
Signal Sites:	Up to 999,999 remote alarm codes (per receiver board) 9,999 Zones (per receiver board)
Error Checking:	All received signals are checked for proper format, signal site and match errors.
AC Line Voltage:	85~260 VAC
AC Frequency:	50~60 Hz
AC Current Draw:	1 Amp Max
Dimensions:	17.0" H x 14.5" D x 6.938" W
Temp Range	
Operating:	32° F to 120° F 0° C to 49° C / -40C to +70 C with optional NEMA 3R Enclosure
Storage:	-22° F to 176° F -30° C to 80° C
Enclosure Type:	NEMA 1 standard / NEMA 3R optional

RF Receiver Board Specifications:

Frequency Range FCC:	72-76Mhz
Frequency Range NTIA:	138-174 MHz
Frequency Resolution:	1Hz
Frequency Stability:	±5 ppm
Modulation:	AM and FM / 6kHz channel acceptance
Channels:	2 Max per Tone board / 4 Max per receiver console
Tone Frequency Range:	190Hz through 5000Hz < 2.5% THD
Impedance:	50 ohm
Sensitivity:	>0.1mV / > -127dBm
Rejection:	> -95dBm
Selectivity:	>90dB for 12.5kHz channel
Modulation range:	6 kHz
Squelch:	< -127 dBm

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ORDERING INFORMATION

KCi #	Model #	Description
RECEIVER OPTIONS **(All Receiver are Setup as Vertical Mount)**		
99440-D	MCR²	MCR^2 Console (Includes 2 controller and 2 tone boards) for use with Workstation
99440-S	MCR²	MCR^2 Console (Includes 1 controller and 1 tone boards) for use with Workstation
99440-R	MCR^3	MCR^3 Repeater (Includes 2 controller and 2 tone boards) for use with Workstation
WORKSTATION OPTIONS		
99441	MCR²W	Standalone Workstation (Includes Software and Accessories)
99442	MCR²SW	Server Workstation (Includes Software and Accessories; Can connect up to 3 Client Workstations)
99443	MCR²CW	Client Workstation (Includes Software and Accessories; System must contain a Server Workstation)
97960	KFUNVPRG	Universal Programming Laptop (For MCR^2 & MCR^3)
BACK UP POWER OPTIONS		
17033	BP1208	Battery Pack, 12V, 8AH
17122	BP1226	Battery Pack, 12V, 26AH
17121	BP1242	Battery Pack, 12V, 42AH
NPN		UPS for Workstation
ACCESSORIES AND KITS		
27402	MCR²10EC	10' Ethernet Cable (For Use with A 3rd Client or Multiple Frequencies)
40403	MCR²CBX	Contractor Box, (For housing Antenna Connections, Batteries and Accessories)
88440	MCR²SS	Ethernet Surge Suppressor
91440	MCR²RM4	19" Rack Mount Kit, 4 Post Rack (Horizontal Mount)
91442	MCR²RM2	19" Rack Mount Kit, 2 Post Rack (Vertical Mount)
97444	MCR²ES	Ethernet Switch (For Use with A 3rd Client or Multiple Frequencies)
91443	MCR²CSX	Contractor Shelf, MCR^2
91403	MCR²CBSX	Contractor Box and Shelf, MCR^2
REPLACEMENT PARTS		
66986	MCR²TB	MCR² Console—RF Tone Board
66987	MCR²MB	MCR² Console—Motherboard
66988	MCR²CB	MCR² Console—Controller Board
69403	MCR²DA	MCR² Console— LCD Display Assembly

For Systems with 3 Clients or multiple frequencies additional components will be needed, please contact the factory for help with system design.