

FreeSpeech® Dual-Channel Wireless Mic Receiver

- > Dual-channel receiver for two FreeSpeech® wireless microphones
- > Advanced combined RF/IR wireless operation ensures trouble-free performance
- > 2.4GHz RF technology with "error recovery" minimizes noise and feedback
- > "Automatic Gain Control" maintains consistent speech levels
- > Built-in 30 Watt stereo amplifier drives one or two pairs of speakers
- > Line output enables connection to an external amplifier or video projector
- > Two stereo line inputs provide amplification for a DVD player, laptop computer, or other program sources
- > Speech and program audio signals are independently adjustable via a control on the wireless mic⁽¹⁾
- > "Ducking" feature automatically turns down the program source whenever the instructor speaks
- > Built-in master volume, bass, and treble adjustment helps optimize the overall sound quality
- > High-efficiency, energy-saving design minimizes power consumption during operation and while idle
- > Includes external power pack and two external antennas



Note: This product is not sold individually, see [MP-FS200 PAK](#).

Crestron® FreeSpeech® systems provide a very simple and affordable solution for adding speech reinforcement as part of a complete classroom media presentation system. The MP-FS-RX2 is a dual-channel receiver capable of supporting two wireless microphones ([MP-FSMIC^{\(1\)}](#)). Built-in amplification provides everything needed to drive a set of speakers⁽²⁾, and even allows for the connection of a DVD player, computer, or other program audio sources.

SPECIFICATIONS

Wireless Communications

RF: 2.4 GHz ISM Device; 79 Channels FHSS (2402 to 2480 MHz)
IR: 38 kHz (requires MP-FSIR IR Beacon Sensor⁽¹⁾)
Range (typical): 50 ft (15 m) indoor, subject to site-specific conditions

Wired Communications

USB: USB host port for firmware update and configuration

Audio

A-D/D-A Conversion: 16-bit, 44.1kHz
Master Volume Range: -55dB to +20dB
Bass Gain Range: ±15dB @ 100Hz
Treble Gain Range: ±15dB @ 10kHz

Ducking Adjustment: Software adjustable Threshold, Depth, Attack, and Release

Alert Tone: Software configurable functionality

Frequency Response: 20Hz to 20kHz ±0.5dB

S/N Ratio: 75dB 20Hz to 20kHz A-weighted

THD+N: 0.7% 20Hz to 20kHz

Output Power: 15 Watts per channel at 8 or 4 Ohms

Amplifier Protection: Electronic short-circuit and overload protection

Connectors

COMPUTER: (1) USB Type B female;
 USB service port

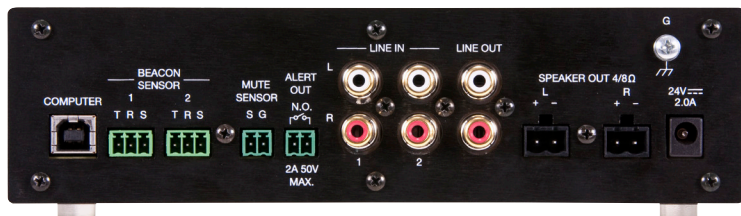
BEACON SENSOR 1 – 2: (2) 3-pin 3.5mm detachable terminal blocks;
 Interface for up to two MP-FSIR IR Beacon Sensors⁽¹⁾

MUTE SENSOR: (1) 2-pin 3.5mm detachable terminal block;
 Contact closure sensing input, or interface for MP-FS-PAS PA Audio Sensor⁽²⁾;
 Mutes all audio outputs when a contact closure or PA audio signal is sensed

ALERT OUT: (1) 2-pin 3.5mm detachable terminal block;
 Normally open isolated relay, software configurable functionality;
 Rated 2 Amp, 50 Volts maximum

LINE IN 1 – 2: (4) RCA female comprising (2) unbalanced stereo line-level audio inputs;

MP-FS-RX2 FreeSpeech® Dual-Channel Wireless Mic Receiver



MP-FS-RX2 — Rear View

Maximum Input Level: 2 Vrms;
Input Impedance: 47k Ohms nominal

LINE OUT: (2) RCA female, unbalanced stereo line-level audio output;
Maximum Output Level: 2 Vrms;
Output Impedance: 100 Ohms nominal

SPEAKER OUT 4/8Ω: (2) 2-pin 5mm detachable terminal blocks;
Left & right channel speaker-level audio outputs;
Wire Size: Connector accepts 14 AWG maximum;
Output Power: 15 Watts per channel at 8 or 4 Ohms

G: (1) 6-32 screw, chassis ground lug

24VDC 2.0A: (1) 2.1 x 5.5 mm DC power connector;
24 Volt DC power input (PW-2420RU power pack included)

Antennas (front): (2) Connections for supplied antennas

Controls & Indicators

PWR: Green LED, indicates operating power supplied from external power pack

BASS: Rotary low frequency boost/cut adjustment

TREBLE: Rotary high frequency boost/cut adjustment

MASTER VOLUME: Rotary master level adjustment

Power Requirements

Power Pack: 2.0 Amps @ 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2420RU included

Environmental

Temperature: 41° to 104°F (5° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 35 BTU/Hr

Enclosure

Chassis: Aluminum w/polycarbonate label overlay

Faceplate: Plastic w/polycarbonate label overlay

Mounting: Freestanding

Dimensions

Height: 2.36 in (60 mm)
Width: 8.12 in (207 mm)
Depth: 5.95 in (151 mm)

Weight

2.33 lb (1.06 kg)

MODELS & ACCESSORIES

Available Models

MP-FS-RX2-1: FreeSpeech® Dual-Channel Wireless Mic Receiver

Included Accessories

PW-2420RU: Power Pack, Desktop, 24VDC, 2A (50 Watts), Regulated, US/International (Qty. 1 included)

Available Accessories

MP-FSMIC: FreeSpeech® Wireless Microphone

MP-FSIR: FreeSpeech® IR Beacon Sensor

MP-FS-PAS: FreeSpeech® PA Audio Sensor

FS6: 6.5" 2-Way Surface Mount Media Presentation Speakers, Pair

FSDI8: 8" Drop-in Ceiling Speakers, Pair

CBL Series: Crestron® Certified Interface Cables

MP-FS200_PAK: FreeSpeech® Dual-Channel Wireless Mic System Package

Notes:

1. Item(s) sold separately or as part of [MP-FS200_PAK](#) system package.
2. Item(s) sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Crestron, FreeSpeech, and the Crestron logo are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others.
©2012 Crestron Electronics, Inc.

MP-FS-RX2 FreeSpeech® Dual-Channel Wireless Mic Receiver

