

FreeSpeech® Single-Channel Wireless Mic Receiver

- > Single-channel receiver for one FreeSpeech® wireless microphone
- > 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 antenna

Note: This product is not sold individually, see MP-FS100 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-RX1 is a single-channel receiver capable of supporting one wireless microphone (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 ± 0.5 dB 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:

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 4/8 Ω : (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 0hms

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)



MP-FS-RX1 FreeSpeech® Single-Channel Wireless Mic Receiver



MP-FS-RX1 — Rear View

Antenna (front): (1) Connection for supplied antenna

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

2.30 lb (1.05 kg)

MODELS & ACCESSORIES

Available Models

MP-FS-RX1-1: FreeSpeech® Single-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-FS100_PAK: FreeSpeech® Single-Channel Wireless Mic

System Package

Notes:

- 1. Item(s) sold separately or as part of MP-FS100_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.

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