Master Control Unit

RK-MCU

General

The Honeywell INTEVIO Public Address (PA) system is the ideal solution for single buildings. Its integrated design provides better stability and cost savings, along with an enhanced user experience for improved performance.

Description

The RK-MCU controller is the core unit of the INTEVIO PA system, providing audio storage, signal processing, routing, control, and supervision functions for the whole system. With a built-in 500 W Class-D amplifier, the single controller can operate as an 8-zone PA system. If more power and speaker zones are needed, it can be expanded by using the RK-AMP 500 external power amplifier and RK-ZONE8/RK-ZONE24 zone expanders.



The RK-MCU controller integrates multiple functions, such as audio storage, playback, zone control, audio monitoring, scheduled broadcast, and fault diagnosis, etc.

Automatic fault diagnosis

The INTEVIO system is a fully monitored system with the ability to supervise and report faults related to the main power, backup power, CPU, microphone, amplifiers, speaker circuits, and dry contact inputs. Fault details are displayed on the LCD screen and fault logs are stored in the internal memory.

Allow all calls even when the CPU malfunctions

During an emergency, if the CPU of the RK-MCU fails, the INTEVIO system still allows paging announcements (All Call) using the PTT Microphone or the call stations.

Scheduled broadcast with built-in timer

The RK-MCU has a built-in timer and supports configurable scheduled broadcast without an additional timing device.



RK-MCU

Record and play

The unit allows temporary message recording via the PTT microphone or call station.

The messages are stored on the internal 1 GB memory and will broadcast without configuration. This allows the system to be used for promotional applications where a message may need to be updated frequently.

Cost-saving amplifier backup solution

The RK-MCU has a built-in amplifier automatic switch-over function and allows different amplifier backup configurations to address the needs of different applications. A minimum of one standby amplifier is required to backup all amplifiers on the system, which greatly reduces equipment cost.

FEATURES AND BENEFITS

- Integrated public address system controller with built-in 500 W amplifier.
- Maximum 8 loudspeaker zones can be connected with a maximum power rating of 500 W for each speaker line.
- 10 dry contact inputs with supervision and 8 dry contact outputs.
- Numerous user-friendly features to increase operational efficiency: plug and play, record and play, interaction between LCD and buttons, etc.
- Built-in 500 W Class-D power amplifier.
- Supports external power amplifiers.
- Equipment cost savings by implanting recorder, timer, audio monitor, and one-for-all backup amplifier solutions.
- Supports both single and dual channel mode
- 2 auxiliary inputs and 1 MIC/LINE input.
- Capable of integration with third-party systems, such as fire alarm systems, through the dry contact.
- Built-in standard configuration allows the system to be used directly following installation. System functions can also be set via the configuration software.
- Built-in 1 GB Flash memory and 4 GB SD card, which can be used to store audio files, recording files, configuration data, and log files, etc.
- Manages all public address and emergency broadcast devices on the system, providing device system status information and device parameter modification via the LCD screen.
- Flexible power amplifier redundancy. A single spare amplifier can back up all amplifiers in the system.

RK-MCU Technical Specifications

MAIN POWER SUPPLY VOLTAGE BACKUP POWER SUPPLY VOLTAGE BACKUP POWER SUPPLY FUSE T10AH 250V 740W MICROPHONE INPUT INPUT SENSITIVITY FREQUENCY RESPONSE SNR 750 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 1V (0 dBV) INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR 780 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 1V (0 dBV) INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR 80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MW/IV-selectable INPUT SENSITIVITY 1V (0 dBV) INPUT IMPEDANCE 20 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR 80 dB (A-weighted) PHANTOM POWER 1-24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 50 0W 0UTPUT SIGNAL 70 V (CH1A) THD 40.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output 0UTPUT SIGNAL 1V (0 dBV) THD 40.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD 40.1% AMPLIFIER CONTROL INTERFACE CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier)	DADAMETERS	VALUE
BACKUP POWER SUPPLY VOLTAGE MAIN POWER SUPPLY FUSE T10AH 250V POWER CONSUMPTION *740W MICROPHONE INPUT INPUT SENSITIVITY -59 ± 3 dBV FREQUENCY RESPONSE 100-14 kHz, ± 3 dB SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MICZLINE INPUT INPUT SENSITIVITY 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR *80 dB (A-weighted) MICZLINE INPUT INPUT SENSITIVITY 5 MW/IV.selectable INPUT IMPEDANCE 70 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR *80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD -0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD -0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 0 UTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier)	PARAMETERS	VALUES
MAIN POWER SUPPLY FUSE POWER CONSUMPTION MICROPHONE INPUT INPUT SENSITIVITY -59 ± 3 dBV FREQUENCY RESPONSE 100-14 kHz, ± 3 dB SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 10 (0 dBV) INPUT SENSITIVITY 11 (0 dBV) INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR NB N		
POWER CONSUMPTION MICROPHONE INPUT INPUT SENSITIVITY INPUT SENSITIVITY FREQUENCY RESPONSE 100-14 kHz, ± 3 dB SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 10 (0 dBV) INPUT SENSITIVITY 11 (0 dBV) INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE 20 K0 FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER 10 TERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W 0UTPUT SIGNAL 70V (CH1A) THD 40.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output 0UTPUT SIGNAL 1V (0 dBV) THD 40.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0UTPUT SIGNAL 1.4V THD 40.1% CONTROL SIGNAL 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V		
MICROPHONE INPUT INPUT SENSITIVITY FREQUENCY RESPONSE 100-14 kHz, ± 3 dB SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 1V (0 dBV) INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 1NPUT SENSITIVITY 5 MV/IV-selectable INPUT IMPEDANCE 20 K0 FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT IMPEDANCE 20 K0 FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W 0UTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output 0UTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0UTPUT SIGNAL 1.4V THD CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS 0UTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0UTPUT SIGNAL 1.4V		
INPUT SENSITIVITY FREQUENCY RESPONSE 100-14 kHz, ± 3 dB SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY INPUT SENSITIVITY INPUT SENSITIVITY S MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT OUTPUT SIGNAL THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS 0Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 0UTPUT CHANNELS 8 (With group A and group B) MAXIMUM LOUDSPEAKER LOAD SON W AMPLIFIER CONTROL INTERFACE CHANNELS 0UTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier)		<740W
FREQUENCY RESPONSE SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY IV (0 dBV) INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY INPUT SENSITIVITY S MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT OUTPUT SIGNAL THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT SIGNAL TOV (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) AMAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V		
SNR >50 dB (A-weighted) AUXILIARY INPUT CHANNELS 2 INPUT SENSITIVITY 1V (0 dBV) INPUT IMPEDANCE 10 K\(\Omega\) FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE 20 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) PHANTOM POWER 20 LT REVIEW SWITCHABLE INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V		
AUXILIARY INPUT CHANNELS INPUT SENSITIVITY INPUT IMPEDANCE FREQUENCY RESPONSE SN >80 Hz-18 kHz, ±3 dBV SNR >80 Hz-18 kHz, ±3 dBV INPUT SENSITIVITY INPUT SENSITIVITY INPUT SENSITIVITY INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT OUTPUT SIGNAL TOV (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 3 (Channel 1, Channel 2, and backup amplifier)		·
CHANNELS INPUT SENSITIVITY INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY INPUT SENSITIVITY INPUT SENSITIVITY S MV/IV.selectable INPUT IMPEDANCE 20 K0 FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output UTPUT SIGNAL 1V (0 dBV) THD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL 1.4V THD Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier)		>50 dB (A-weighted)
INPUT SENSITIVITY INPUT IMPEDANCE 10 KΩ FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70 V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output UTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	AUXILIARY INPUT	
INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ±3 dBV >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE 20 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD 40.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output UTPUT SIGNAL 1V (0 dBV) AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD 40.1% CONTROL SIGNAL 1.4V THD CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD MAPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	CHANNELS	2
FREQUENCY RESPONSE SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL TOV (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	INPUT SENSITIVITY	1V (0 dBV)
SNR >80 dB (A-weighted) MIC/LINE INPUT INPUT SENSITIVITY 5 MV/IV.selectable INPUT IMPEDANCE 20 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL 5.eff-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 5.00 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 5.00 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	INPUT IMPEDANCE	10 ΚΩ
MIC/LINE INPUT INPUT SENSITIVITY INPUT IMPEDANCE 20 KO FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier)	FREQUENCY RESPONSE	80 Hz-18 kHz, ±3 dBV
INPUT SENSITIVITY INPUT IMPEDANCE PREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL TV (0 dBV) THD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL THD <0.1% Self-test signal, amplifier fault signal, and power saving control signal LOUSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) AMPLIFIER CONTROL INTERFACE OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V	SNR	>80 dB (A-weighted)
INPUT IMPEDANCE FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL 1.4V CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V	MIC/LINE INPUT	
FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dBV SNR >80 dB (A-weighted) -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL 1.4V THD CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V	INPUT SENSITIVITY	5 MV/IV.selectable
SNR >80 dB (A-weighted) PHANTOM POWER -24 VDC, switchable INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT 500 W OUTPUT SIGNAL 70V (CH1A) THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL 5elf-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	INPUT IMPEDANCE	20 KO
PHANTOM POWER INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT OUTPUT SIGNAL THD FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS OUTPUT SIGNAL THD AMPLIFIER CONTROL INTERFACE CHANNELS OUTPUT SIGNAL 1.4V THD CONTROL SIGNAL 1.4V THD CONTROL SIGNAL CONTROL SIGNAL LOUDSPEAKER CIRCUITS OUTPUT CHANNELS OUTPUT SIGNAL 1.4V	FREQUENCY RESPONSE	80 Hz-18 kHz, ± 3 dBV
INTERNAL POWER AMPLIFIER MAX. POWER OUTPUT OUTPUT SIGNAL THD <pre></pre>	SNR	>80 dB (A-weighted)
MAX. POWER OUTPUT OUTPUT SIGNAL THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT CHANNELS 8 (with group A and group B) AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V	PHANTOM POWER	-24 VDC, switchable
OUTPUT SIGNAL THD <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	INTERNAL POWER AMPLIFIER	
THD < <0.1% FREQUENCY RESPONSE 80 Hz-18 kHz, ± 3 dB AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	MAX. POWER OUTPUT	500 W
FREQUENCY RESPONSE AUDIO OUTPUT OUTPUT CHANNELS OUTPUT SIGNAL THD AMPLIFIER CONTROL INTERFACE CHANNELS OUTPUT SIGNAL 1.4V THD CONTROL SIGNAL 1.4V CONTROL SIGNAL LOUDSPEAKER CIRCUITS OUTPUT CHANNELS AXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 1.4V	OUTPUT SIGNAL	70V (CH1A)
AUDIO OUTPUT OUTPUT CHANNELS Channel 1, Channel 2, and recording output 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) AMMIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	THD	<0.1%
OUTPUT CHANNELS OUTPUT SIGNAL 1V (0 dBV) THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	FREQUENCY RESPONSE	80 Hz-18 kHz, ± 3 dB
OUTPUT SIGNAL THD <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	AUDIO OUTPUT	
THD < <0.1% AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V THD < 0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	OUTPUT CHANNELS	Channel 1, Channel 2, and recording output
AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0 UTPUT SIGNAL 1.4V THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS 0 UTPUT CHANNELS MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0 UTPUT SIGNAL 1.4V	OUTPUT SIGNAL	1V (0 dBV)
CHANNELS OUTPUT SIGNAL 1.4V THD CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) 0 UTPUT SIGNAL 1.4V	THD	<0.1%
OUTPUT SIGNAL THD <0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	AMPLIFIER CONTROL INTERFACE	
THD < 0.1% CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	CHANNELS	3 (Channel 1, Channel 2, and backup amplifier)
CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	OUTPUT SIGNAL	1.4V
control signal LOUDSPEAKER CIRCUITS OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	THD	<0.1%
OUTPUT CHANNELS 8 (with group A and group B) MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	CONTROL SIGNAL	Self-test signal, amplifier fault signal, and power saving control signal
MAXIMUM LOUDSPEAKER LOAD 500 W AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	LOUDSPEAKER CIRCUITS	
AMPLIFIER CONTROL INTERFACE CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	OUTPUT CHANNELS	8 (with group A and group B)
CHANNELS 3 (Channel 1, Channel 2, and backup amplifier) OUTPUT SIGNAL 1.4V	MAXIMUM LOUDSPEAKER LOAD	500 W
OUTPUT SIGNAL 1.4V	AMPLIFIER CONTROL INTERFACE	
	CHANNELS	3 (Channel 1, Channel 2, and backup amplifier)
THD <0.1%	OUTPUT SIGNAL	1.4V
111-	THD	<0.1%
CONTROL SIGNAL Self-test signal, amplifier fault signal, and power saving control signal	CONTROL SIGNAL	

DADAMETEDO.	VALUE 0		
PARAMETERS	VALUES		
LOUDSPEAKER CIRCUITS			
OUTPUT CHANNELS	8 (with group A and group B)		
MAXIMUM LOUDSPEAKER LOAD	500 W		
CONTACT INPUT/OUTPUT			
CONTACT INPUTS	10 contact input interfaces with supervision		
CONTACT OUTPUTS	8 (NO, NC & COM), "fault" output, alarm output		
MAX. WORKING VOLTAGE FOR OUTPUTS	AC 250 V/DC 30V		
MAX. WORKING CURRENT FOR OUTPUTS	2.5 A		
OTHERS			
DC POWER OUTPUT	24V/1 A		
MONITORING LOUDSPEAKER	2 W/8Ω		
ETHERNET PORT	10M/100M		
MEMORY CAPACITY	1 GB		
OPERATING CONDITIONS			
RELATIVITY HUMIDITY	< 95% without condensation		
OPERATING TEMPERATURE	-10°C ~+50°C (14°F ~+122°F)		
STORAGE TEMPERATURE	-40°C ~+70°C (-40°F ~+158°F)		
WEIGHTS AND DIMENSIONS			
PRODUCT DIMENSION (W×H×D)	482 mm × 133.5 mm × 420 mm (18.98 in. × 5.26 in. × 16.53 in.)		
PACKAGE DIMENSION (W×H×D)	580 mm × 279 mm × 552 mm (22.83 in. × 10.98 in. × 21.73 in.)		
NET WEIGHT	24.25 lbs.		
GROSS WEIGHT	31.08 lbs.		

WARRANTY

2 Years

CERTIFICATIONS AND APPROVALS

CATEGORY	REGION	CERTIFICATION
SAFETY	Europe	CE Certified
SAFETY	Global	CB Certified
EMC	North America	FCC Part 15 Subpart B Certified
SAFETY	North America	UL60065 Certified

ORDERING

DESCRIPTION	MODEL#
MASTER CONTROL UNIT	RK-MCU

Note: Honeywell reserves the right, without notification, to make changes in product design and/or specifications.

Honeywell Security and Fire

12 Clintonville Road Northford, CT 06472, USA Tel:+1.800.323.4576 www.honeywell.com

