



**ALFTECH**  
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## Industrial Digital Audio Player

### iDAP-RM1

#### Hardware Features

- **1U Rack-Mount form factor**
- **AC powered**
- **Supports all MP3 file formats**
- **Balanced and unbalanced stereo audio line-out**
- **microSD card storage up to 2GByte, supplied with 2GB microSD Card**
- **microSD card file access for 300 folders and 800 MP3 files/folder**
- **Random or Sequential file playback option**

#### Hardware Connections

- **230 VAC IEC power socket (IEC Power Cable Inc.)**
- **RCA unbalanced audio Line-Outs**
- **5-way terminal balanced audio Line-Outs (5-Pin Male Connector Inc.)**
- **microSD (Secure Digital) Card slot**

#### Hardware Indicator LED's

- **Power LED**
- **PLAY: Random vs. Sequential**
- **SD Card: Read OK vs. File Error**

### iDAP-RM1 Electrical Specifications

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT	NOTES
Power Consumption	230VAC, normal operation		2		W	
Audio Output Level RCA	0 dBFS digital		-10		dBu	
Audio Output Level terminals	0 dBFS digital		-4		dBu	1
Audio Output Impedance	Hot to Gnd & Cold to Gnd		22		Ω	
Frequency Response	20 Hz to 18 kHz		± 1		dB	2
Signal-to-Noise Ratio	-3 dBFS digital			84	dB	2
Total Harmonic Distortion	-3 dBFS digital			0.004	%	2

#### Notes

1. The output level is between the hot and cold terminals, balanced.
2. Tested with 44100 Hz sample rate, 16 bits and 192 kbps data rate.

### DESCRIPTION

The ALFTECH iDAP-RM1 is an Industrial Digital Audio Player, providing continuous playback of compressed MP3 Audio files such as music, advertisements or announcements. The MP3 Audio Files are stored on a standard microSD Card, inserted into the microSD Card slot on the iDAP-RM1.

When the microSD Card is inserted and valid MP3 files are detected, *playback will start automatically*. There is no playback or stop buttons as the iDAP-RM1 plays continuously whenever valid MP3 files are available.

Sequential or random playback can be selected via a front-panel switch.

The iDAP-RM1 is AC powered, via a standard power connector and cable. Playback resumes automatically when the power has been restored if the external power has been interrupted.

Example of MP3 Audio Compression Ratios:

microSD Card	Low Quality, i.e. Telephones (40kbits/s)	High Quality, i.e. Background Music (128kbits/s)
1 GByte	58 hours	18 hours
2 GByte	116 hours	36 hours

iDAP-RM1 DATASHEET August 2011

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# PHYSICAL LAYOUT AND DIMENSIONS

## DPT-EN3

(All Dimensions in mm)

