



ALFTECH
YOUR PARTNER IN INDUSTRIAL INNOVATION



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)

