

Audio Recorder Demonstration Unit ARDU12A

A convenient demonstration system for the GPAR12A audio recorder module.

The ARDU12A is a self-contained battery powered audio recorder system, designed to demonstrate the capabilities of the GPAR12A audio recorder module.

The demonstration system is supplied with one GPAR12A module, a low-noise desktop microphone and a USB to RS232 serial cable for remote operation using a PC.

To use the system, you just need to add batteries, a media card and headphones.

You will then be able to make and replay high-quality audio recordings using either the onboard switches or serial port to control the module.

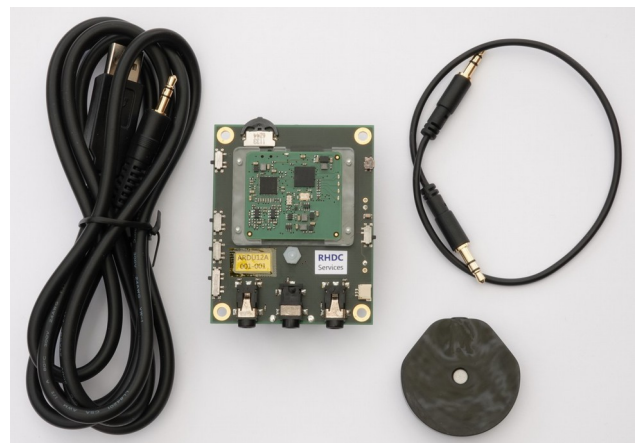
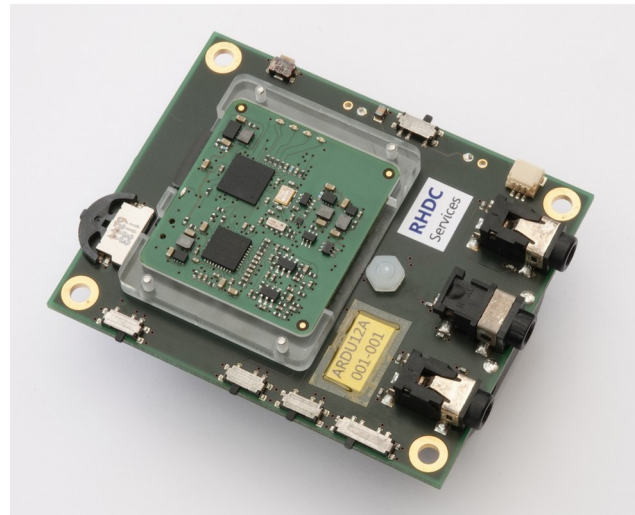
If you need a complete audio recorder system tailored to your needs, RHDC Services Ltd would be pleased to quote for a customised version.

Features

- ◆ Studio Quality Recording
- ◆ Ultra Low Power Design
- ◆ 128GByte+ media supported
- ◆ Precision 1.5ppm Battery Backed RTC
- ◆ 44.1kHz Stereo sampling (adjustable)
- ◆ Very low jitter sample clock
- ◆ Low-Noise Stereo Mic. Preamp
- ◆ Sub-second Recording Latency
- ◆ Flexible Control Interface
- ◆ 9600 BAUD RS232 Serial Port
- ◆ Simple Serial Control Protocol
- ◆ Globally Unique ID for Inventory Control
- ◆ Compatible with 9A, 10A, 11A and 12A/B
- ◆ GPAR12B version available (ARDU12B)

Applications

- ◆ Stand-Alone Audio Recorders
- ◆ Point of sale equipment
- ◆ Scientific Applications
- ◆ Multi-Channel Recording



GPAR12A Module Specifications

Unless stated otherwise: Supply Voltage = 2.5V, Sampling = 16 bit / 22.05kHz mono, source = Line, Media = Samsung 64GB EVO (TLC Flash), Temperature = 20°C, Headphones disabled. Backup battery fully charged, LEDs disabled.

Dimensions (mm)	30.8 x 33.3 x 3.5
Serial Control Port	3.3V Inv. RS-232
Record Time 22.05kHz Mono	800h (128GB)
Supply Voltage Range	1.9 to 4.5V
Power Consumption (Line)	11mW
Power Consumption (Mic)	15mW
Supply Current (Standby)	10µA
Dynamic Range (LINE input)	96dB(A)
Dynamic Range (MIC input)	96dB(A)
Maximum Input Level (Line)	+4 dBu
Maximum Input Level (Mic)	-20 dBu
Maximum Input Level (Mic+)	-26 dBu
Preamp Noise Input Referred	< 1µV RMS
Low Noise Mic. Bias Output	1.6V @ 1mA
Standby to recording latency	<1s
Time retention without power	> 6 Months

Note. Specifications are subject to change without notice.