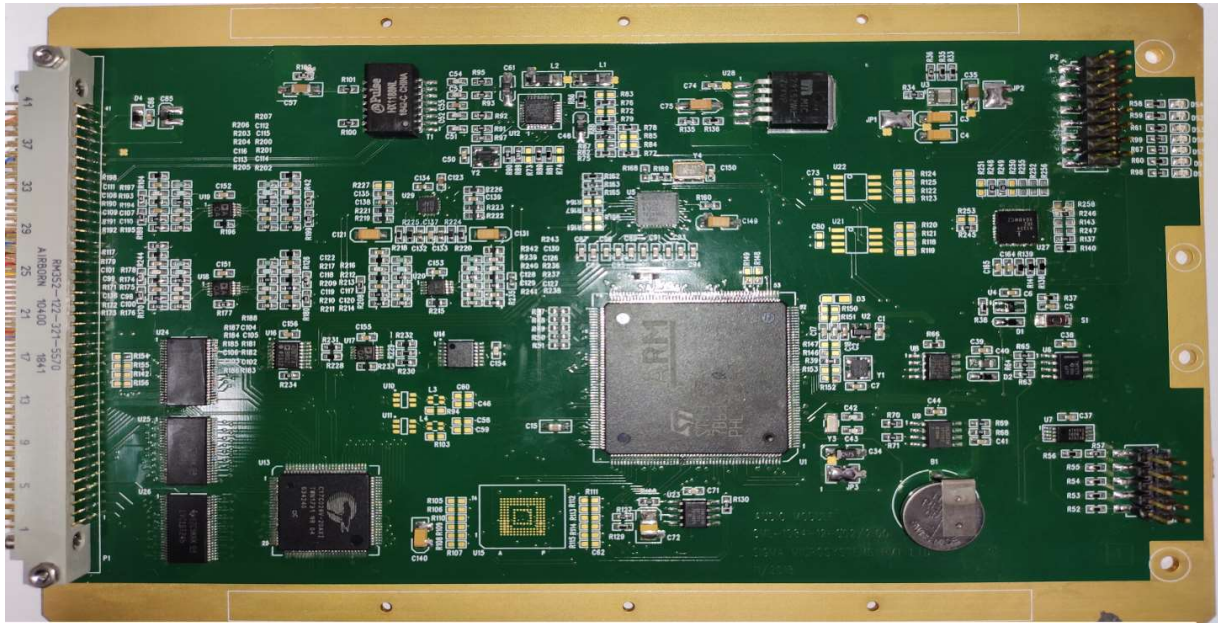


**Avionics-grade Audio Board**  
**Sigma ARM Cortex M4 Card - SML-1084-81-002**



**Features**

- Powerful Audio Acquisition board for military and airborne application
- 10-year product life-support
- Type-tested as per MIL-STD-810
- 32-bit ARM microprocessor for blazing-fast operations
- Highly integrated processor with large Flash, SRAM and peripherals including serial ports, USB, Ethernet and CAN bus
- Abundant external memory of various types for data storage (optional)
- Real-time Clock (RTC), Elapsed Time Counter (ETC) and Temperature Sensor
- Four(4) audio inputs, Two(2) audio outputs
- Rugged Engineering for harsh environment
- High MTBF

For more details and other modules, please contact:

**SIGMA MICROSYSTEMS PVT LTD**

24/A, Hardware Park, Hyderabad – 500005 INDIA.

Phones: +91 9440803710; +919440803720, 25; Email: [sigma@sigmamicrosystems.co.in](mailto:sigma@sigmamicrosystems.co.in)

## Specifications

Microprocessor	ARM Cortex-M7; Speed up to 480 MHz On-chip Flash memory – 2 MB On-chip SRAM – 256 KB Two (2) serial ports One (1) Ethernet-MAC, with external PHY (10 /100 Mbps) 16-bit bus expansion on connector for external interface
External Memory (optional)	SPI NVRAM (128KB) Serial EEPROM (8KB) EMMC FLASH UP TO 8GB
Serial Ports	Two (2) with RS-232 Interface
AUDIO	Four (4) audio inputs Two (2) audio outputs SAI interface Frequency range: 300Hz to 3500Hz Sampling rate: 8kHz to 96kHz
Miscellaneous	Real Time Clock Elapsed Time Counter Temperature Sensor
Power Supply input	+5V DC
Dimensions	Size: 180±0.5 MM X 116±0.5 MM X 1.6±0.1 MM
TEMPERATURE	-40°C to +71°C
Engineering	Multi-layer FR4 Glass Epoxy PCB with wedge-lock mounts
CONNECTOR	AIRBONE 122PIN (RM352-122-321-5570)
Software	Full set of Device Drivers and API for C/C++ Full Board Support Package (BSP) for Real-time applications Support for Keil IDE

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