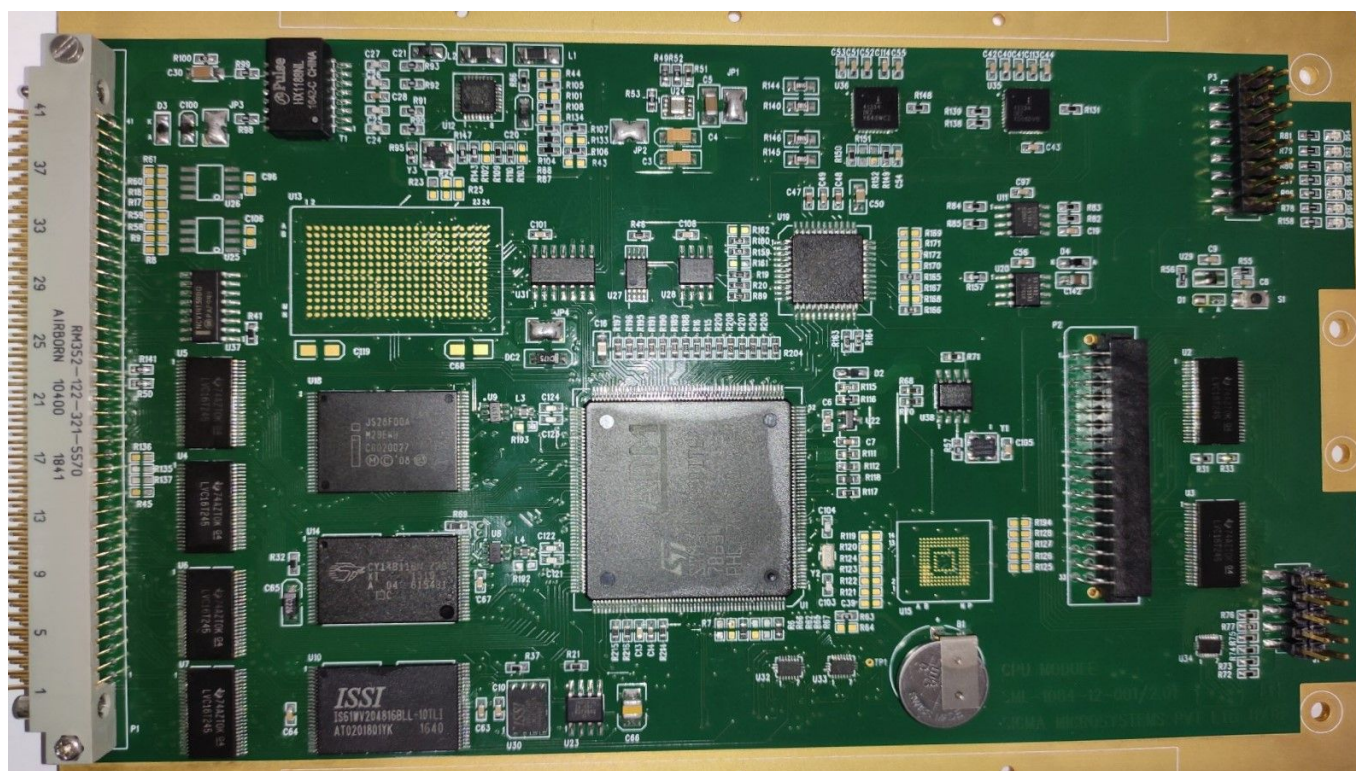


## Avionics-grade Data Acquisition and Telemetry Board

Sigma ARM Cortex M4 Card - SML-1084-81-001



### Features

- Powerful Data Acquisition and Telemetry board for military and airborne applications
- 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
- Protected Memory Module (PMM) Interface Avionics bus - MIL-STD-1553 and ARINC-717 interfaces
- Four (4) Frequency Inputs
- Real-time Clock (RTC), Elapsed Time Counter (ETC) and Temperature Sensor
- Two (2) Fault OUT, One (1) Fault IN signals
- Two (2) Mode-IN signals
- 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; +91 9440803720, 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) CAN ports; Two (2) USB ports; Four (4) serial ports One (1) Ethernet-MAC, with external PHY (10 /100 Mbps) 16-bit bus expansion on connector for external interface.
External Memory (optional)	NOR FLASH (128MB); NAND FLASH (1GB); EMMC NAND FLASH (8GB) SRAM (4MB); SPI NVRAM (128KB); SPI NOR FLASH (128Mb); EEPROM (8 KB)
MIL-STD-1553	One (1), dual-redundant; supports RT/BC/MT Modes
ARINC - 717	One (1) Port with Tx and Rx
CAN bus	Two (2)
USB Ports	Two (2)
Serial Ports	Two (2) with RS-232 Interface Two (2) with RS-422 interface
Miscellaneous	Real Time Clock Elapsed Time Counter Temperature Sensor
PMM Interface	Standard PMM (34-pin parallel Interface)
Frequency Inputs	Two (2) low frequency inputs (2 Hz - 1 kHz) Two (2) high-frequency inputs (1 kHz - 10 kHz)
Faults & Modes	Two (2) Fault OUT; One (1) Fault IN Two (2) Mode IN
Power Supply Input	+5V DC
Dimensions	(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
Connectors	Airborne 122-pin (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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