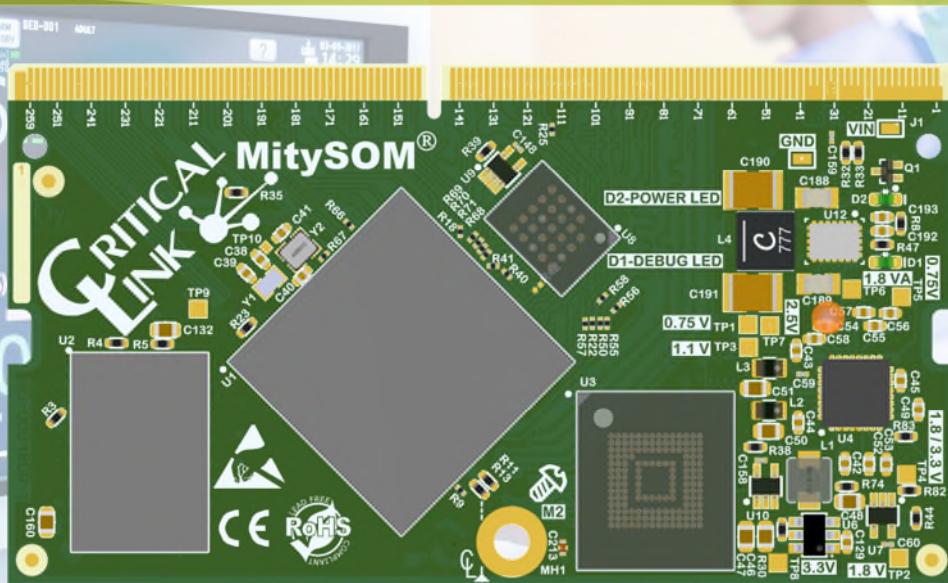




MitySOM-AM62A

TI Sitara AM62Ax Modules



Production-Ready Solution for Broad Market Applications

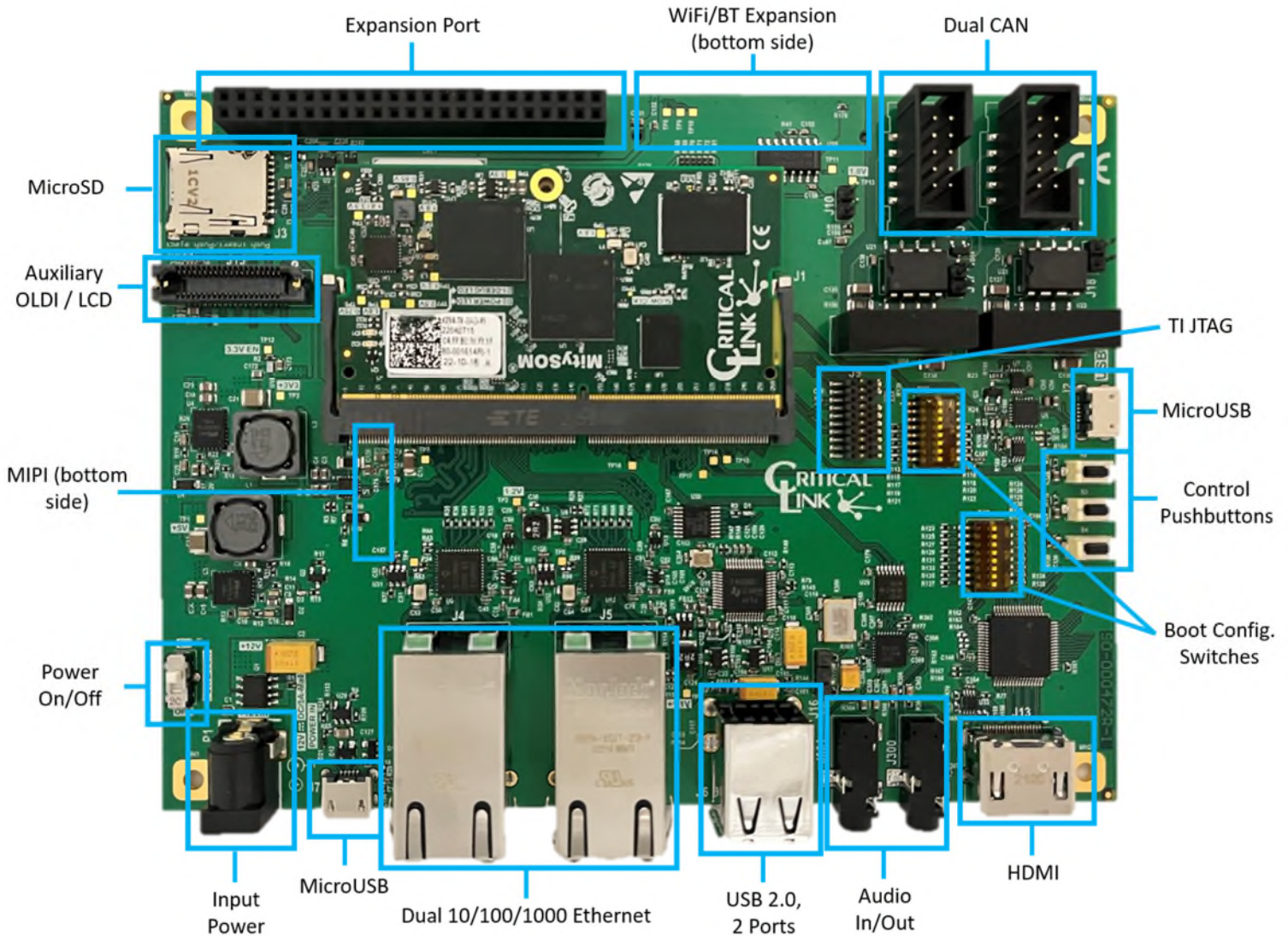
- Embedded Instrumentation
- Embedded Artificial Intelligence
- Industrial Automation
- Industrial Instrumentation
- Medical Instrumentation
- Embedded Camera Applications
- Human Machine Interaction
- Robots
- ADAS & Driver Monitoring

SOM SPECIFICATIONS

- TI AM62Ax Application Processor
 - Up to Quad Arm Cortex-A53 MPU at up to 1.4 GHz
 - 32 KB L1 Program Cache per Core
 - 32 KB L1 Data Cache per Core
 - 512 KB Shared L2 Cache
 - JTAG Emulation/Debug
- Single Core Arm Cortex-R5F MCU up to 800 MHz with 256 KB SRAM
- Deep Learning Accelerator
 - C7x floating point, up to 40 GFLOPS
 - Matrix Multiply Accelerator, up to 2 TOPs (8b)
 - 32 KB L1 Dcache, 64 KB L1 ICache
 - 1.24 MB L2 SRAM
- Vision Processing Accelerator with Image Signal Processing blocks
- AM62Ax Processor Choices
 - AM62A74 (Quad Core, 2 TOPs)
 - AM62A72 (Dual Core, 2 TOPs)
 - AM62A34 (Quad Core, 1 TOPs)
 - AM62A32 (Dual Core, 1 TOPs)
 - AM62A31 (Single Core, 1 TOPs)
- Up To 16 GB LPDDR4 CPU RAM
 - 32 bits wide, 14.9 GB/sec transfer rate
- Up to 128 GB eMMC FLASH
 - 8 bits wide, HS200 speed
- Up to 256 MB Octal SPI NOR FLASH
- Video Encode/Decode Acceleration
- Arm Cortex-R5F processor for boot, resource, and power management
- Watchdog Timer and Real Time Clock
- Secure Boot
- Crypto Hardware Accelerators (AES, SHA, DRBG, PKA)

STANDARD DDR4 SO-DIMM-260 INTERFACE

- 2 10/100/1000 Mbps EMACs
- 1 MIPI CSI 1.3 Camera Input, 4 lanes up to 2.5 Gbps
- 1 Display Output, up to 2048x1080@60fps
- 3 CAN ports
- 7 UARTs
- 2 USB 2.0 Dual Role Device Ports
- 3 multi-Channel MCASPs
- 2 4 lane MMC/SD/SDIO
- 3 SPI, 3 I2C, GPIO
- eHRPWM, eQEP
- Single 3.3V Input Power Supply
- Compatible with MitySOM-AM62x SOM



INTERFACES

- MIPI
- Dual USB 2.0
- Micro USB 2.0
- Dual Gigabit Ethernet
- Dual 10/100 Ethernet
- HDMI
- Dual CAN Bus
- Audio In/Out
- Dual OLDI/LCD Output Adapter
- USB Debug UART
- Micro SD Card
- WiFi/Bluetooth Module Adapter

Includes everything you need to get up and running in minutes.

Start software development months ahead schedule.