

SMC

Small Mission Computer



The low-power, lightweight, Small Mission Computer (SMC) is a ruggedized general-purpose computing device that can be used in a wide variety of applications. Typical uses of the SMC Include:

- Advanced Autonomy
- Flight Management Functions
- Safe Separation of Platform Resources
- STANAG 4586 Vehicle Specific Modules
- Assured Position Navigation and Timing (A-PNT)
- STANAG 4586 U.S. Army Interoperability Profiles
- Storage of payload data (e.g. Video and Imagery)
- Artificial Intelligence and Machine Learning (AI/ML) Applications
- Storage of Data for GPS-Denied Operations (e.g. Digital Terrain Elevation Data (DTED) and Imagery)



SMALL MISSION COMPUTER - SMC

General Specifications:

- SD Card Slot
- Memory: 4GB LPDDR4
- Input Voltage: 6-36 VDC
- Temp Range: - 40C to 85C
- Storage: 16 GB – 64 GB eMMC (options)
- Processor: Quad-Core ARM Cortex-A53 CPU, 1.8GHzatts

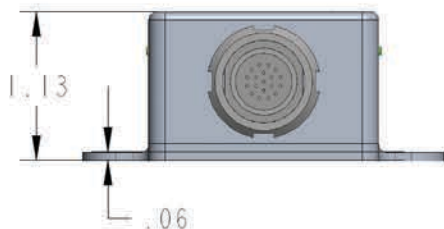


Input / Output:

- 2x SPI
- 2x I2C
- 2x UART
- Up to 40x GPIO
- Ethernet: 10/100/1000
- 3x general purpose PWM
- 2x USB2.0 dual-role ports

Supports Safety Architecture:

- Physically Separated from Processor Intensive AI Functions
- Supports Future DO-178 Development
- Supports Real-Time Processing for Safety Critical Functions



Power Side



LAN Side



Physical Specifications:

- Weight: 4 oz.
- Material: Aluminum 6061
- Mate: S12YAR-P19XFG0-0000
- Total Size: 3.75" L x 2.75" W x 1.13" H
- Connector: G82YAR-P19UF00-000L (19) Pins

