

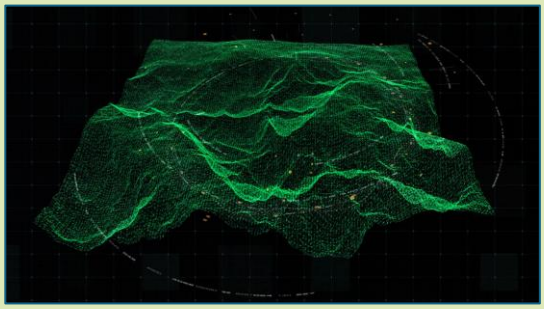
AIRMOD SUMMITX

MISSION COMPUTER

SWAP OPTIMIZED EDGE COMPUTING

Situational awareness powerhouse

The systems combine high-performance Intel CPU/GPU which can operate at maximum frequency on all cores and an optional Accelerated AI co-processor. This AI processor adds **up to 28 TOPS** of processing power, enabling simultaneous analysis and interpretation of simultaneous data from 4 video feeds or more.



Compact and versatile avionics



With the ability to interact with commercial avionics interfaces connected to various sensors to acquire and process data and share it over a network or other standard avionics buses, SummitX solutions feature all the core functions required for modern Integrated avionics applications.
Most avionics computer configurations serve a specific purpose, each requiring certain interfaces to the outside world. SummitX's configurable front-panel and COTS flavors covers a wide range of commercial flight computers, display processors, and mission computers. SummitX computers are designed to stack and communicate to offer various redundancy configuration and address the highest level of availability.

Airmod's technology products bring the highest level of situational awareness processing to aerospace and defense applications.

The SummitX product series are rugged, pre-qualified mission computers for mission-critical applications that require the highest level of power for the optimum size and weight.

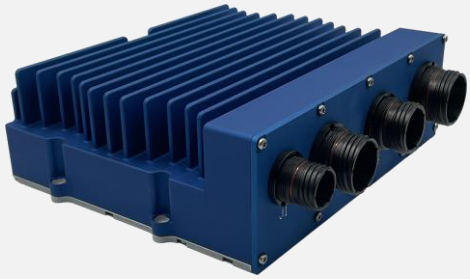
"Designed for Safety" is an Airmod Systems core competency. From the outset, SummitX have been engineered with DO-178C/DO-254 design safety rules, documentation and independent verification and validation applied across the whole development process.

SummitX supports mixed safety-critical levels of HWCI and CSCI via its multi-processor partitioned architecture.

SummitX solutions are available with all the documentation and artifacts required for RTCA DO-178C/DO-254 certification up to level C.

Development kit available upon request.

S930013 v1.0



AIRMOD SUMMITX-2000

MISSION COMPUTER

ADVANCED EDGE COMPUTING FOR SITUATIONAL AWARENESS

"Deliver superior situational awareness with our rugged, pre-qualified SummitX-2000 mission computer, engineered for AI applications and video fusion in commercial and defense settings."

- **High Performance: Intel TigerLake processors with AI acceleration**
- **Comprehensive Avionics Interfaces**
- **4x4 video switch matrix with up to 4x 1080p60 video capture**
- **Rugged Design: Conduction-cooled chassis, with optional dual fan active cooling**

PROCESSOR AND MEMORY

- Intel® 11th Generation Core™
- i7-1185GRE, 4 cores, 1.8GHz – 4.4GHz
- 16 GByte DDR4
- 2×2 TB SSD (optional 2nd 2 TB SSD available)
- Optional AI accelerator

POWER

- Dual 28V Power Supply Feeds
- Hold-up 50ms
- >40Watt

INTERFACES

- 4x ARINC 429 Tx and Rx for high & low speed
- 4x RS232/422/485 configurable serial channels
- 1x Gigabit Ethernet (1000BASE-T)
- 1x 2.5 Gigabit Ethernet (2500BASE-T)
- 1x USB 3.1 GEN1
- 2x USB 2.0
- 10x Discrete configurable I/Os
- 4x 3G-SDI inputs & 4x 3G-SDI outputs

ENVIRONEMENTAL

- Operating temperature -40°C to +70°C
- Storage temperature -55°C to +85°C
- Temperature variation DO-160 Cat B
- Altitude MIL-810 25000Ft
- Vibrations DO-160 Cat U
- Operational shocks DO-160 Cat D
- Crash safety DO-160 Cat E
- Humidity DO-160 Cat B
- Waterproofness DO-160 Cat W
- EMI/RFI DO-160 Cat H/P



AIRMOD SUMMITX-2100

MISSION COMPUTER

NEXT GENERATION AI MISSION COMPUTER

"Best in class situational awareness, engineered for AI applications and multi-fusion in commercial and defense settings"

Top Performance: Intel RaptorLake processors with AI acceleration

Comprehensive Avionics Interface: Supports multiple video and graphics processing option

Rugged Design: Conduction-cooled chassis, with optional dual fan active cooling

PROCESSOR AND MEMORY

- Intel® 13th Generation Core™
- i7-13800HRE, 14 cores, 2.5GHz – 5GHz
- 64 GByte LPDDR5
- 2×2 TB SSD (optional 2nd 2 TB SSD available)
- Optional AI accelerator

POWER

- Dual 28V Power Supply Feeds
- Hold-up 50ms
- >55Watt

INTERFACES

- 4x ARINC 429 Tx and Rx for high and low speed
- 4x RS232/422/485 configurable serial channels
- 2x 2.5 Gigabit Ethernet (2500BASE-T)
- 1x USB 3.1 GEN1
- 2x USB 2.0
- 10x Discrete configurable I/Os
- 4x 3G-SDI inputs & 4x 3G-SDI outputs

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