



MAIC-100

Modular Artificial Intelligence Computer

Rugged Design
Modularity & Scalability
High End AI Processing Power

AVIES Modular Artificial Intelligence Computer is a rugged, modular, scalable computing and interface unit for avionics, military, industrial and robotics applications.



Teknopark Ankara 
1368. Cadde, No:61/33
Yenimahalle / ANKARA / TÜRKİYE
+90 312 870 10 40 
info@avies.com 

www.avies.com



MAIC-100 is a scalable AI computing unit specifically designed to fulfil wide-ranging requirements of avionics, military and robotics applications. It has a module-based design such that various type of functional modules exists for different tasks and IO operations. Each module has its own sealed DSUB connectors to provide external IO interface. Modules connect to each other via pass through board to board connectors. MAIC-100 is capable to achieve complex AI tasks based on its powerful processor.

The smallest functional MAIC-100 unit consists of two modules which are Base Module and Processing Module. In case of necessity, up to 5 functional modules can be attached between these two essential modules without the need for a main board. This unique design ensures flexibility, customizability and ability to fast prototyping for MAIC-100 architecture.

Technical Specifications

NVIDIA JETSON based Processing Power up to 248 TOPS

84W Power Output Capable Base Board

Processing Module IOs; GB ETH, USB 2.0, UART, CAN, GPIO

Module Dimension 22 x 170 x 140 mm

Weight < 2 kg (3 Module version)

Weight < 3.5 kg (7 Module version)

Qualifications

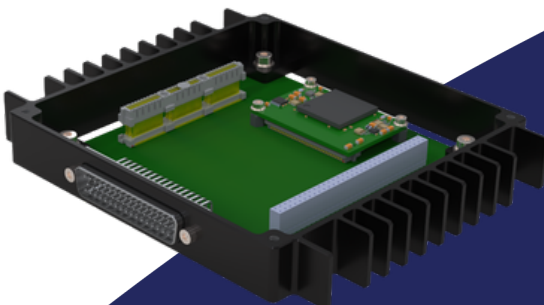
- MIL-STD-810
- MIL-STD-704
- MIL-STD-461
- DO-160G

MAIC-100 Module List

- Processing Module
- Base Module
- Storage Module (Up to 8 TB)
- Removable Memory Module
- Video Module
- MIL-STD-1553 Module
- ARINC429 Module
- Deterministic Network Module
- RF Communication Module
- Audio Module
- Analog IO Module
- Discrete IO Module
- GPS Module
- Data Encryption Module

Environmental Conditions

- Operating Temperature and Altitude
-40°C / +71°C, 50.000 ft
- Storage Temperature
-55°C / +85°C



Teknopark Ankara 
1368. Cadde, No:61/33
Yenimahalle / ANKARA / TÜRKİYE
+90 312 870 10 40 
info@avies.com 