

# AMC-300B Avionic PC for AIM9L & UAVs

## **Extended Temperature Range**

Miniature Airborne PC computer running Embedded Windows XP/7 on ATOM N270 CPU, 1GB. AMC-300B is built and qualified for AIM-9L and P-4 type ACMI POD tubes. It is used on fighter planes such as F-16 "Wing Tips.

### **Features**

- ◆ 1GB RAM
- ◆ 8-256GB Flash disk, XP Embedded
- ◆ 10/100BaseT Ethernet
- ◆ 4 x RS232/RS422/RS485
- ◆ 4 x USB 2.0 host
- ◆ SoundBlaster with output impedance
- ◆ 8 ohm or 50Kohm
- ◆ SVGA
- ◆ 1-2 x MIL-STD-1553, Bus controller, Remote-terminal, Bus-monitor
- ◆ I/O—Discrete signals
- ◆ Support for 1.8" micro SATA

### **Options**

- ◆ RS-170 output

### **AMC-300B, Construction**

The AMC-300B, is designed and constructed in accordance with the general requirements of MIL-STD-454.



### **Dimensions & Weight**

100x100x255 (WXHXL) [mm],  
Weight: 5.0Lbs

### **Power Supply requirements**

A single 18-36VDC per MIL-STD-704A

### **Discrete Signals**

#### **Input**

4 x TTL discrete signals  
4 x OPTO isolated 28VDC discrete signals

#### **Output**

8 x 28VDC discrete Signals

### **1PPS**

Interrupts and time, synch. to 1PPS

### **Option: TDMA Data-Link Controller**

**ETI Services Inc. CAGE CODE: 1PZ92**

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## **Environmental Conditions**

### **Temperature:**

The AMC-300B will not be damaged or affected by the effects of ambient air Operation temperature: -40° to +71°C .

Non-operating: (Storage/transportation) from -54° to 85°C.

### **Relative humidity**

Operating: 95% relative humidity (RH) with no condensation.

Non-operating: 95% RH.

### **Vibration**

According to MIL-STD-810F for AIM9L POD or UAV..

### **Shock**

Per MIL-STD-810E, 40g for duration of 11msec.

### **Fungus**

The AMC-300B is non-nutrient to fungus growth according to the requirements in MIL-STD-810F.

### **Sand and Dust**

The AMC-300B shall operate as specified herein while and after being subjected to sand and dust as encountered in dry arid arias according to MIL-STD-810F.

### **Salt Fog:**

The AMC-300B is resistant to the corrosive effects of salt fog environment per the requirements of MIL-STD-810F.

## **Thermal Design**

The cooling of the components on the AMC-300B PC cards, Power Supply and the Pentiums chip is accomplished by conduction through the aluminum enclosure of the unit.

## **External Connectors**

External connectors are used for interfacing with the subassemblies or equipment and are in accordance with MIL-STD-454. Connectors mating bodies are keyed, and keyed locations are varied to prevent improper installation.

## **Electromagnetic Interference:**

AMC-300B as specified with its internal boards, complies to MIL-STD-461E.

- ◆ CE101 Conducted Emissions, Power Leads, 30Hz - 10kHz
- ◆ CE102 Conducted Emissions, Power Leads, 10kHz - 10MHz
- ◆ CS101 Conducted Susceptibility, Power Leads, 30Hz - 50kHz
- ◆ RE102 Radiated Emissions, Electric Field, 100kHz - 10GHz
  
- ◆ RS101 Radiated Susceptibility, Magnetic Field, 30Hz - 100kHz

## **Reliability:**

MTBF of 30,000 hours

Mean Time To Repair (MTTR) < 30 minutes.

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