



DataMetrics™

MODEL 9100 EMBEDDED FLIGHT COMPUTER



Key Features

- Powerful Intel® Pentium® M, Core™ Solo, and Core™2 Duo Processors Available
- Small Footprint for Space-Challenged Applications
- Compatible with a Variety of Operating Systems
- Up to Eleven I/O Ports
- Lower Power Utilization
- Wireless Internet Capabilities
- Designed to Meet DO-160E EMI/EMC
- Suitable as an Airborne Flight Server
- Supports Multiple Simultaneous Remote Flight Displays
- Perfect as an Electronic Flight Bag Computer (EFB)
- Internal GPS Available as an Option
- Customer Definable Configurations

Model 9100 Overview

The Model 9100 features a powerful Intel® Pentium® M 1.8 GHz or Core™2 Duo 1.66 GHz processor, 1 GB DDR SDRAM, 60 GB hard drive, wireless internet capabilities, and more. The computer's diminutive footprint of 5.75" W x 1.75" H x 9.85" D makes it ideal for installations where space is premium. Additional value added features include multiple ruggedized circular, EMI-compliant connectors, flanges allowing vertical and horizontal mounting, and a protective face plate for front panel buttons and connectors.

Additional features include dual USB 2.0 ports, dual RS-232 ports, WiFi antenna SMA connector, 10/100 BaseT Ethernet interfaces, high-performance 3D graphics accelerated chipset, and compatibility with a variety of operating systems including various versions of Linux and Microsoft® Windows®.

This model is suitable as an Airborne Flight Server and can support multiple simultaneous Remote Flight Displays. The mentioned features make it perfect as an Electronic Flight Bag Computer (EFB).

Fully Mission Capable™





Environmental Characteristics

- Temperature - Operating . . . 0°C to 45°C
- Vibration 1 G Sinusoidal @ 60 Hz
MIL-STD-810F, Table 514.5C-VIII
- EMI Ruggedized, EMI Shielded Aluminum
- EMC Designed to meet DO-160E

Performance Characteristics

- Processor Options Pentium M 1.8 GHz or Core2 Duo 1.66 GHz.
Core Solo/Duo/Quad support for expansion per Intel Embedded roadmap
- Operating System Microsoft® Windows® XP Professional
Linux
- Memory 1 GB DDR SDRAM
- Storage 60 GB 2.5" HD IDE
- Interfaces - Rear (J1) 1x Power Input Connector
- Interfaces - Rear (J2) 1x WiFi Antenna SMA Connector
- Interfaces - Rear (J3 & J4) 2x RS-232, 2x USB 2.0
1x VGA Out
1x LVDS Out
1x Audio In
1x Audio Out
1x 12V Power Output Connector
1x Ethernet 10/100-BaseT
- Interfaces - Front 1x USB 2.0 with standard USB Type A Conn.
1x Power Switch
1x Power LED
1x Protected Reset Switch
- Network 1x Ethernet 10/100-BaseT
1x 802.11b/g WiFi via miniPCI (Optional)
- Connectors Multiple Ruggedized Circular, EMI-compliant Connectors
- GPS Available as an option

Electrical Characteristics

- Power 1x Unregulated 10 to 30 VDC Input
Supports up to 2-sec Power Interruption
1x Regulated 12 VDC Output
- Cooling Internal fans for convection cooling, and passive cooling via case

Physical Characteristics

- Size 5.75" W x 1U 1.75" H x 9.85" D
- Weight 3.5 lbs.
- Mounting Flanges allow vertical and horizontal mounting
- Face Plate Protective face plate for front panel buttons and connectors

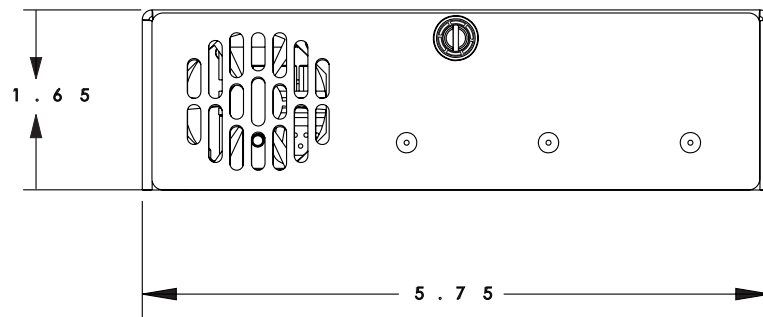
Front View (Protective Face Plate Down)



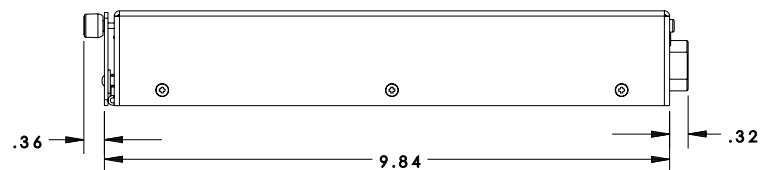
Back View



Front View (Dimensions)



Side View (Dimensions)



Ordering Information

Part Number	Description
9100-0000-101-P039	Intel Pentium M, Black Paint Medium Texture
9100-0100-101-P039	Intel Core2 Duo, Black Paint Medium Texture
Standard Configuration 9100-0000-100-P039	
"X" indicates ordering options.	
Contact DataMetrics for other options and custom configurations.	