



GEN-X—ELECTRONIC FLIGHT BAG



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- DO-160F Qualified
- Helicopter Vibration Approved
- Can be used as Class 2/3 EFB
- Superior Readability in All Conditions
- Internal Battery Chemistry: NiMH Nickel Metal Hydride
- New 10.4 Display with Resistive Touch Interface

The information contained herein is for information purposes only. Due to continual product improvements/changes specifications are subject to change without notice. * Certification pending

Description of Product

GEN-X is the newest Electronic Flight Bag from DAC International.

The GEN-X was built from the ground up. The hardware component is designed to be a Parts Manufactured Approved (PMA) system with full multi-functional capabilities that allows for connectivity, control and synchronization for all onboard computing requirements to include EFB functionality as well as third party Windows software applications. The system consists of a separate processor and an optional 10.4" display. The unit is also ruggedized for helicopter operations.

Key Features

- Dual Core Processor
- 4 Gigabyte RAM
- 3 External Serial Ports
- 4 External USB (Including the two Display ports)
- 4 in and 2 out Arinc 429 High or Low speed
- 80 gig minimum Solid State Drive (SSD)
- 1 GbE Ethernet Port
- LVDS and VGA output, XGA resolution
- 28 Volt DC input, Aircraft Power
- NiMH Battery backup, avoids FAA Lithium concerns
- Tested to DO-160F standards including helicopter levels
- PMA Product *
- No cable limitations

Electronic Charting - Gen-X supports Electronic Chart applications from third-party suppliers such as Jeppesen®, Lido (Lufthansa Systems) and Navtech. The Gen-X EFB high resolution screen and state of the art processor provides full graphics and processing support for the applications such as en-route, terminal charts and Airport Moving Maps on a crisp easy to read High Bright Display.

Electronic Checklists - Gen-X will support Customizable Electronic Checklists that may include emergency operations, standard procedures, etc. in any file format supported by the operating system. Gen-X provides an easy means to access these documents.

Centered Maps - The Gen-X utilizes the necessary hardware interfaces, ARINC inputs, serial inputs, etc., to support centered maps using GPS or other FMS navigational data inputs.

Electronic documentation - Easy access to electronic documentation saves the hassle of finding the proper documents in the flight manuals. These documents can be updated using the easy access USB ports on the display.

Performance Applications - Various performance applications can be utilized and parameter saved for later use by the ground operations staff.

Weather displays - The high resolution of the Gen-X provides excellent detail of the weather information provided by the supported weather systems.

Video - Using the desired hardware interface, video input can be provided NTSC, PAL or RS170 formats allowing for use of cabin cameras, external view cameras, etc.

Maintenance and Technical Logs - Technical reports, pilot logs, surveys, and so on can be saved and downloaded for future actions by ground operations or maintenance crews using supported software programs.

Special Applications - The multi-function capabilities of the Gen-X allow for a multitude of special program operations. Programs to support medical applications, credit card reading, Duty Free billing, and more can be part of the capabilities of the Gen-X.

Connectivity Options - With the proper software and hardware options the Gen-X can support a wide variety of connectivity using the provided interfaces. Things such as Wi-Fi for uploading or downloading maintenance information, internal cameras for cabin observation or external cameras for exterior observation are a few of the solutions that can be used. Easy access USB ports on the display provide a means to keep documents and charts up-to-date.



Gen-X Specification Highlights

Display

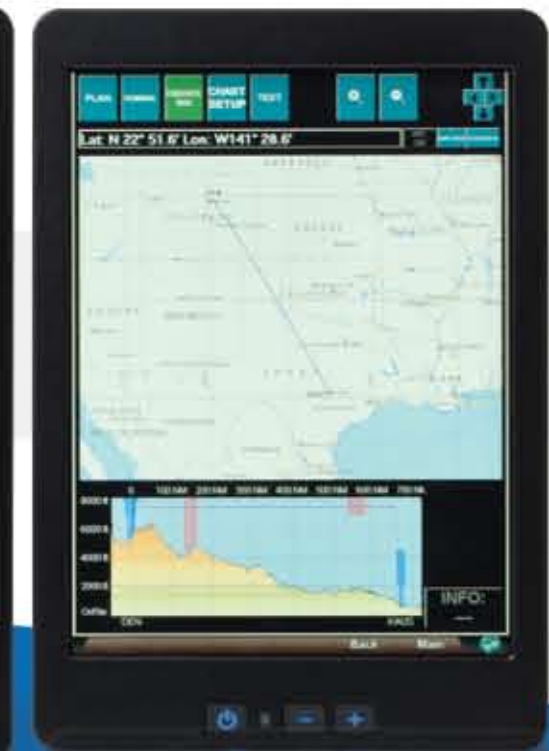
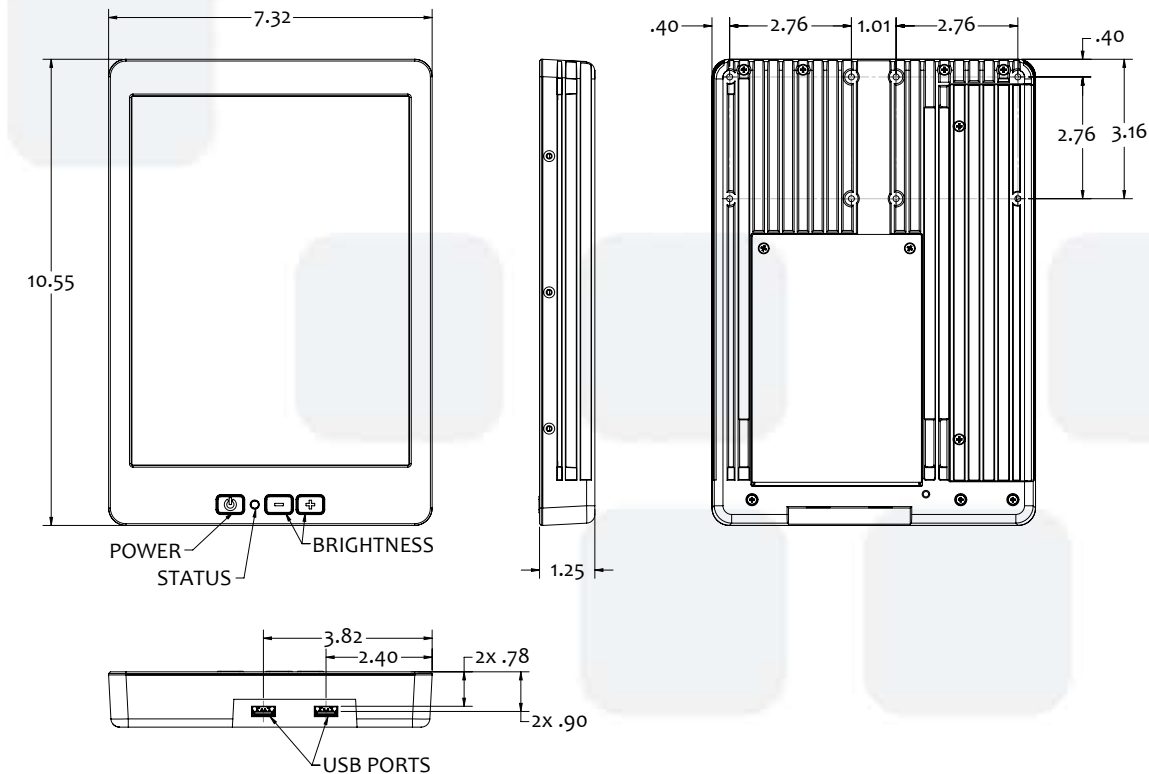
One size, one color

Length (in.)	Width (in.)	Depth (in.)
10.04	7.32	1.25

- Color non-reflective black
- Weight: <6lbs, 2.72 Kg
- Display area = 10.4 diagonal
- Pixel density= 1024 x 768
- Luminosity: >1000 Nits dimmable to < 1 Nit
- Power requirements: Developed and supplied by RPU (12 VDC Nominal)

10.4" Display

- 10.4" with Resistive touch interface
- High-Bright Sunlight Readable display
- Operates in Landscape or Portrait mode
- Dual USB front panel connectors
- Size comparable to current 8" display
- On/Off to RPU
- Bright/Dim buttons
- Dimmable to dark
- Pigtail for ease of mounting and cable routing
- PMA Product*



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RPU

Dimensions:

- | | |
|----------|------------|
| • Height | 3.0 ± 0.3" |
| • Width | 12.9" |
| • Depth | 8.6" |
| • Weight | 10 ± 3 lb. |

Power requirements: 28 VDC < 6 Amps Nominal

Power logic: Power up and down as normal avionics with no On-Off switch required. If Normal Buss power is lost and Aircraft Emergency (Bat) buss is active then the RPU will run from the internal battery for up to 30 minutes. If both Normal Bus and Emergency Bus are powered off, then perform a graceful shutdown on internal battery. Off switch on display may be used to recycle power if required by the operator.

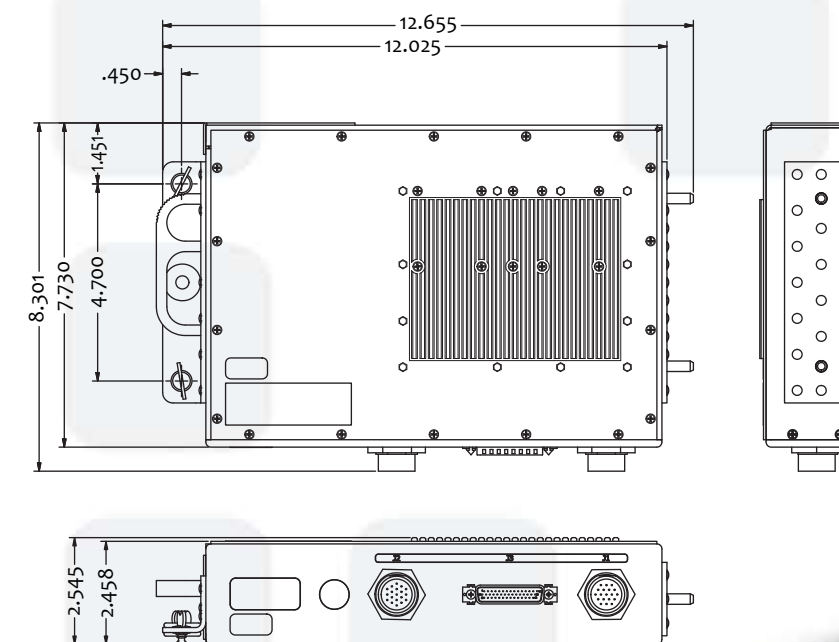
Internal Battery Chemistry: NiMH Nickel Metal Hydride

Capacity: Battery will have sufficient storage capacity to operate the RPU and display for a minimum of 30 minutes across full operational temperature range.

Computer specifications:

- Running the Windows operating system
- Core 2 Duo Processor
- Passive or heat pipe cooling (no fan)
- LVDS video output, 1 ea
- VGA video output, 1 ea
- 10/100-T Ethernet port, 2 ea (one used internally for 429 conversion)
- RS-232 serial data ports, 4 ea (one used internally for power control)
- SATA interface to hard drive, 1 ea
- USB 2.0 ports, 4 ea
- 4 gigabytes system RAM
- Single +28Vdc power, 6 Amp max

Hard Drive Specifications: SSD Solid State Drive
a Minimum of 80 Gigabytes



Design Environmental Specifications

Temperature Per DO-160F category B4

- Operating Temp: -15C to +55C
- Storage Temp: -30C to +80C

Altitude Per DO-160F Category A4, Table 4-1

- Operational -15,000 ft. pressurized, temperature controlled
- Explosive decompression 8000 to 50,000 ft. in 15 seconds

Vibration Per Do-160F including helicopter levels

Shock Per DO-160F including helicopter levels

