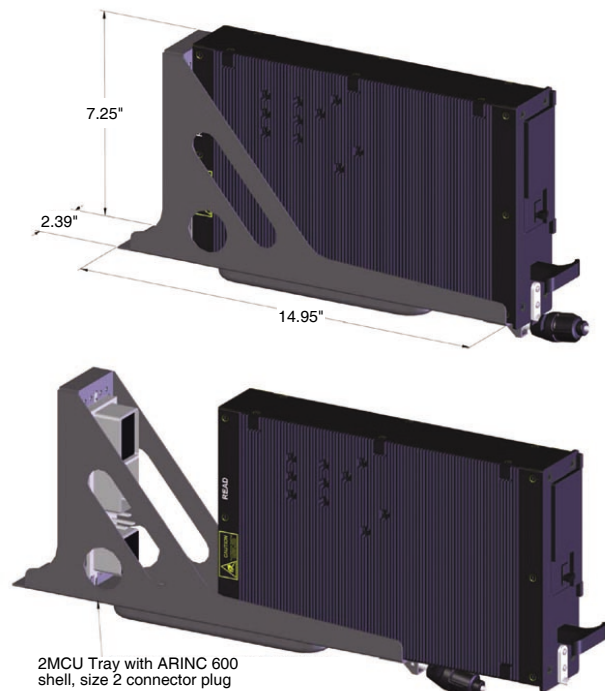


## Advanced File Graphics Server

The Advanced File Graphics Server (AFGS) is designed for data storage, high-rate data processing, or high-speed graphics processing. The AFGS includes several interfaces to provide pilots, and possibly maintenance crews, with the ability to access information and execute applications that are either available locally on the AFGS or hosted on a centrally located Aircraft Network Server Unit (ANSU).

The AFGS has the ability to store and support display of airport and approach charts (e.g. Jeppesen Database). The design provides multiple inputs for video and graphics applications including video cameras. It supports display of information on two video outputs configurable as either RGB or DVI.

The AFGS envelope design meets the ARINC 600 or 2MCU package and fits into a standard 2MCU tray.



### General Data

Part Number	18350-04
Power Supply	28 V DC input
	30 msec to 1 sec power holdup
	Notification of power loss
Mechanical Interface	ARINC 600 tray
Enclosure	Rugged aluminum design for heat dissipation
Temperature Monitor	Temperature indication sensors on processor and graphics chip (software-controlled)

### Computer Baseboard

CPU	1.1 GHz Intel Pentium® processor (upgradeable to 2.0 GHz)
Memory	512 MB DDR RAM via SODIMM module (upgradeable to 1 GB)
Interrupts	7 direct memory access channels
Storage Media	2 compact flash slots (write-protectable)
	1 serial ATA drive
Communication Ports	Single-port gigabit Ethernet controller; IEEE 802.3 compliant, 10Base-T, 10Base-TC, 1000Base-T
	RS-232, RS-485/RS-422
	ARINC 429 <ul style="list-style-type: none"> <li>■ 4 receive and 2 transmit channels</li> <li>■ FIFO (First In, First Out) 8-word memory</li> </ul>
	Addition of MIL-STD-1553 data bus (optional expansion)

### Environmental

Operating Temperature	-40°C to +70°C (with heater)
Storage Temperature	-55°C to +80°C
Environmental and EMI	RTCA DO-160D certification
MTBF	>15,000 hours

### Video

Video Input	4 composite (NTSC, PAL, RS-170)
	1 RGB/VGA or TMDS (DVI)
Graphics Controller	High-speed ATI chip on AGP (Accelerated Graphics Port) bus <ul style="list-style-type: none"> <li>■ 64 MB onboard memory</li> <li>■ Supports dual output (RGB or DVI)</li> </ul>
	Video image rotatable to landscape or portrait format