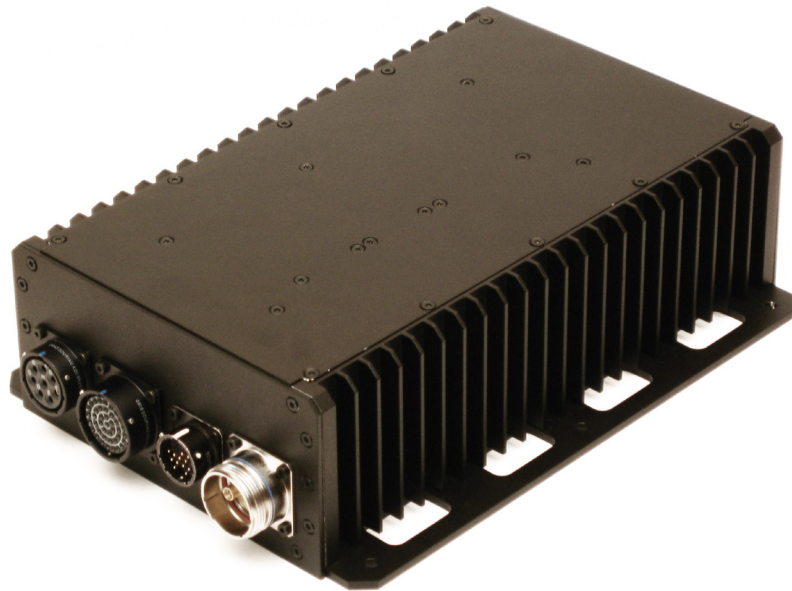


Ruggedized Airborne Computer

Conductive cooled



Key Features

- Ruggedized airborne computer, conductive cooled
- High-end dual-core processor unit Intel C2D T7400, 2x2.17 GHz
- Power supply 28VDC with integrated hold-up caps for ≥ 1 s bridging
- cPCI backplane for CPU board and one free slot
- User specifiable cPCI interface board (high-end graphics, ethernet switch, e.a.)
- Internal Flash Disc 32GB, interfaces for local HMI (VGA, USB)
- Operating system Windows Embedded

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Ruggedized Airborne Computer

Conductive cooled

Description

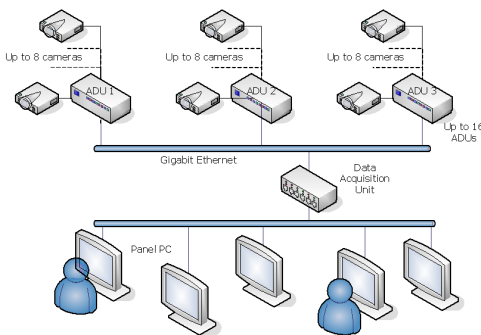
The ruggedized airborne computer is designed for

- high-end graphics applications like display of navigational data on roll-maps,
- multicamera image acquisition and display,
- airborne or terrestrial multipurpose use.

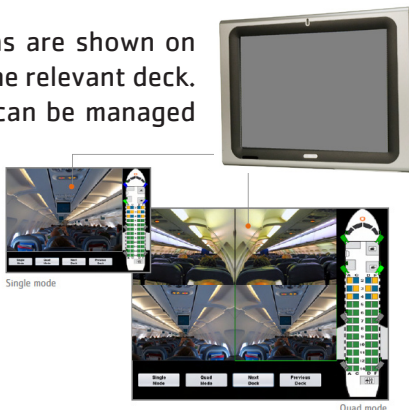
Basis for the computer is a compact PCI backplane. For application dependent interfaces one cPCI slot can be used. The photo shows an interface and connector usage of a typical multi camera application for a cabin video monitoring system.

Example Application: Cabin Monitoring

In this application 8 intelligent cameras with on-board MJPEG video stream encoding are connected via 8 x 100 MBit Ethernet cables to the ruggedized airborne computer. The following principal diagram shows a configuration with a central processing unit and different user panels for selection and display of single cameras or quad view of four cameras:



The available cameras are shown on a map according to the relevant deck. Up to 128 cameras can be managed by the system. The following images show typical camera views in single and quad mode, arranged with deck graphics.



Technical Details

Chassis	Conductive cooled chassis with cPCI backplane
Power supply	28VDC (18-36 VDC input), 84W
Hold-up time	≥1sec
CPU-Board	CPU Core 2 Duo T7400, 2x2.17GHz or L7400 2x1.5GHz, 2Gbyte DDR2 2xGLan, 2xUSB
CPU	High-end dual core CPU
Disc	Flash-disk 32GB
cPCI Inter-face boards	User specifiable cPCI interface boards: <ul style="list-style-type: none"> • High-end graphics for roll-maps e.a. • 8x100Mbit Ethernet for 8 intelligent cameras with MJPEG stream encoding • 4xGbit Ethernet for 4GigE cameras • Opto coupled 16 Digital I/Os • Board with 8 relays • ARINC 429 interface
Operating system	Win Embedded
Connectors	Airborne approved connectors: <ul style="list-style-type: none"> • 2x4 channel Quadrax for 8x100Mbit LAN or 4 x Gigabit LAN • Quadrax for Gigabit LAN connection to host computer • Connectors for local HMI (analog VGA, 2x USB), RS232, digital I/O, power supply
Operating temperature	-10°C ... +60°C (optional -40°C ... +85°C)
Storage temperature	-40°C ... +85°C