

Pascall

IFEC

In Flight Entertainment and Communications products



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Pascall is well renowned within the aerospace industry for producing high performance and high reliability cabin and electronics bay power solutions. Our products are currently used in applications such as seat boxes, media file servers, satcom antennas, passenger display screens, direct broadcast satellite TV, cellular phone communications & USB charging for portable electronic devices, with high power capability.

Our electronic design capabilities cover the power range from 10 watts through to several kilowatts with inputs of 115VAC, fixed or variable frequency, 28VDC or dual 115VAC/28VDC. Unit outputs are designed to meet specific customer requirements. Additional battery or capacitor backup capability can be built in for extended holdup time beyond the nominal 200 milliseconds.

Pascall's environmental design capability covers full conformance to the requirements of RTCA-DO-160, Airbus & Boeing specifications including the latest specifications for wild frequency (360Hz – 800Hz) and composite bodied aircraft.

With the convergence of direct broadcast satellite TV, communications and connectivity into the IFE arena, Pascall's extensive knowledge and capability in IF, RF and Microwave signal processing has facilitated enhanced customer solutions in the civil aerospace market.

From DBS TV multiplexer units, gate-link applications and GSM cellular phone interfacing, we are carrying this capability forward to support the Wi-Fi, Wi-Max & 3G/LTE products of the future



Pascall Reliable Airborne Power Solutions

www.pascall.co.uk

CELLULAR PHONE COMMS

DROP DOWN DISPLAYS

SATCOMS ANTENNA

MEDIA FILE SERVER

PERSONAL ELECTRONIC DEVICES

SATCOMS TRANSMITTER

WIRELESS ACCESS POINT

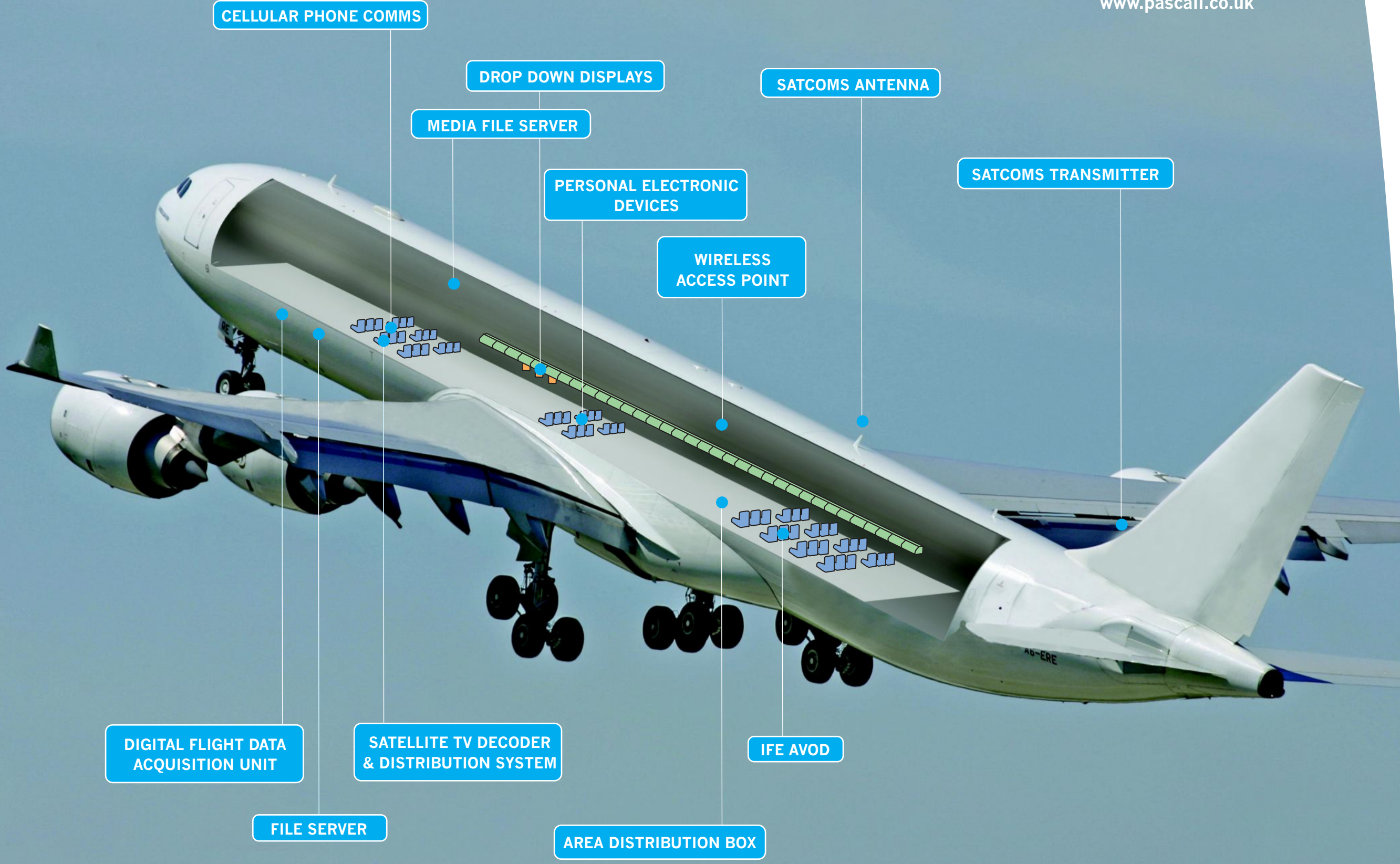
DIGITAL FLIGHT DATA ACQUISITION UNIT

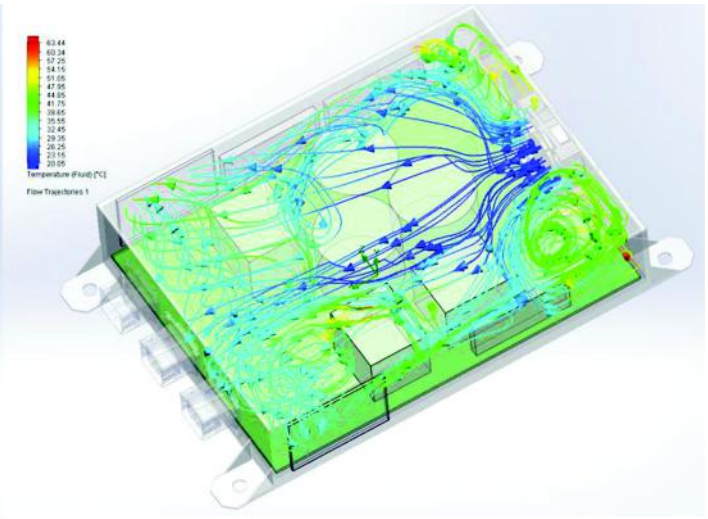
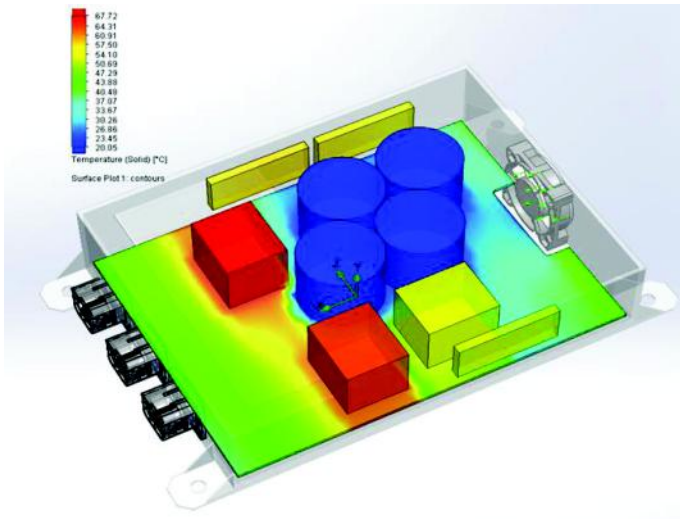
SATELLITE TV DECODER & DISTRIBUTION SYSTEM

IFE AVOD

FILE SERVER

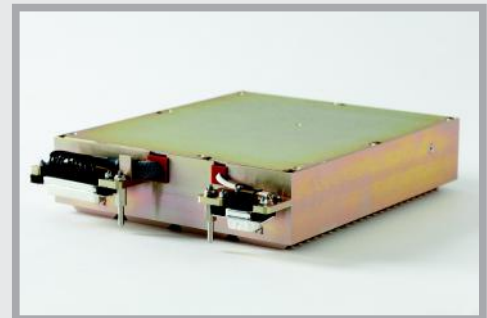
AREA DISTRIBUTION BOX





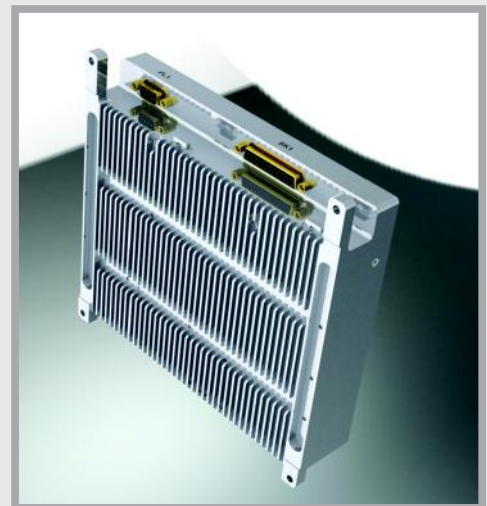
Engineering Services

- Electronic Design
- Mechanical Packaging
- MTBF Prediction and FMEA/FMECA
- Circuit Board Design
- Thermal Simulation
- Extensive Engineering Laboratory
- HALT Testing
- Temperature Testing
- Conducted EMI Testing
- Qualification Testing: Electrical, EMI & Environmental



Design Capabilities

- AC to AC, AC to DC & DC to DC converters
- Single and Three Phase AC Inputs
- Custom Discrete Designs
- Power Range from 10 watts to several kilowatts
- Extended Battery/Capacitor backup
- Wide Temperature range, -55°C to +100°C
- High Vibration/Shock Environments
- Compliance with Civil Avionic standards:
 - RTCA-DO-160, Airbus ABD0100 and Boeing D6-44588
- Compliance with Military standards,
 - eg MIL-STD-461, MIL-STD 810 & Def-Stan 59-41



Quality Certifications

AS9100:REV C ISO9001:2008 ISO14001:2004

Pascall

Defence Power Products

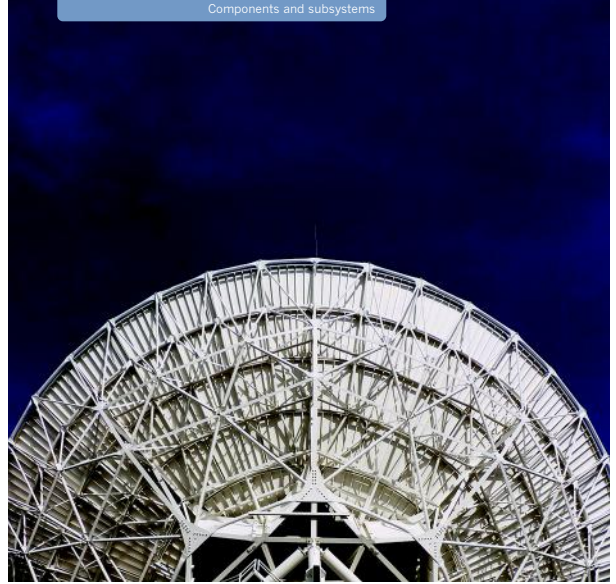
AC/DC & DC/DC Converters



Pascall

RF & Microwave

Components and subsystems



Other products from Pascall

Defence Power Products

The high reliability and technical excellence of Pascall's civil avionics power supplies stems from our background in the military power converter market. For over twenty five years Pascall has been designing and manufacturing specialised power supplies for use in both military and other environmentally challenging applications. These include units for missile guidance, helicopter health monitoring, avionics radar, airborne electronic warfare, land vehicle weapon targeting, space station experiments, off-shore oil rig valve control and ship helicopter landing systems. Whilst the majority of products that Pascall manufactures are bespoke designs to customer specification we also offer a COTS range of AC to DC and DC to DC VME power supplies targeted primarily at the military market.

RF & Microwave

With over 30 years designing and manufacturing for the main primes in the United States, Europe and Asia, the RF and Microwave division has established Pascall's reputation as a supplier of reliable, high performance components, sub-systems and systems up to 13GHz.

Applications include Radar, Communications, Air Traffic Control, ELINT, SIGINT and Weather RADAR.

The RF division has particular expertise in ultra low noise frequency sources including Pascall's industry leading ultra low noise VHF OCXO range and customised multi-channel fast switching synthesisers.



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FM13274
AS9100 : Rev C
ISO9001 : 2008

EMS 526257
ISO 14001 : 2004