



PARTNER COMPANIES  
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ANTENNAS & TELEMETRY



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AVIONICS & GENERAL AVIATION



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CAMERA, VIDEO, DATA RECORDING



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COMPONENTS



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POWER ELECTRONICS



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ACCELEROMETERS GYROSCOPES



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SIGINT and EW



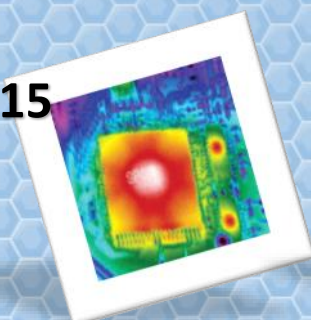
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SPACE QUALIFIED PRODUCTS



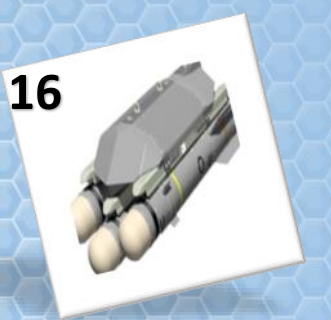
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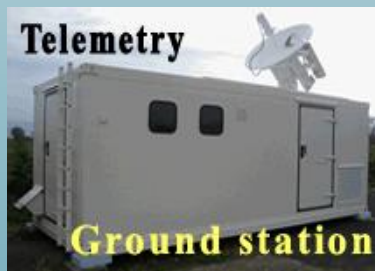


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# Antennas & Telemetry



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**COBHAM**

MARLOW

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**COBHAM**

NEWMARKET

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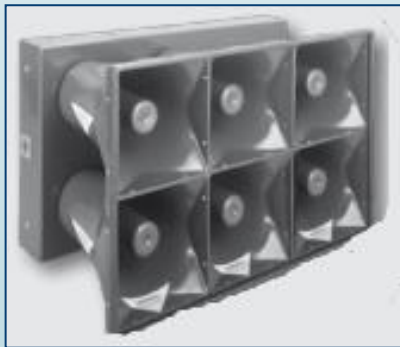
**COBHAM**

DOURDAN

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# Avionics & General Aviation



## Emergency Locator Transmitters



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[www.skyhunter406.com](http://www.skyhunter406.com)

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# Camera, Video, Data Recording



## High Speed Camera



[www.aostechnologies.com](http://www.aostechnologies.com)

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Tech Source

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## CRASH RECORDERS



## MISSION RECORDERS



## QUICK ACCESS RECORDERS



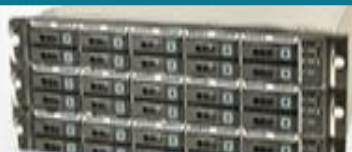
## MULTI-ROLE RECORDERS



## DATA STORAGE



## DATA RECORDERS



## VIDEO RECORDERS



## Graphics and Video Capture



## Video Processing



# Electromechanical Components

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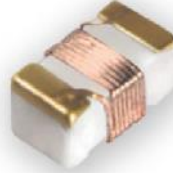
**3 F  
PAYTON GROUP  
INTERNATIONAL**

[www.paytongroup.com](http://www.paytongroup.com)  
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## RESOLVERS



## SMD INDUCTORS



## OPTICAL ENCODERS



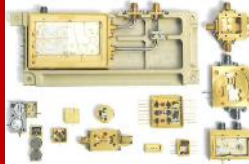
## CHOKES



## COAXIAL CONNECTORS



## MICROWAVE MODULES



## DIODES, VARACTORS, MOS CAPACITORS



## PLANAR TRANSFORMER



## ACCELEROMETERS



## POWER PROTECTION CABINETS



## GYROSCOPES



**PolyPhaser**

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**Radiall**

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**SLOAN**  
PRECISION OPTOELECTRONICS

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**STEGO**

[www.stego.de](http://www.stego.de)  
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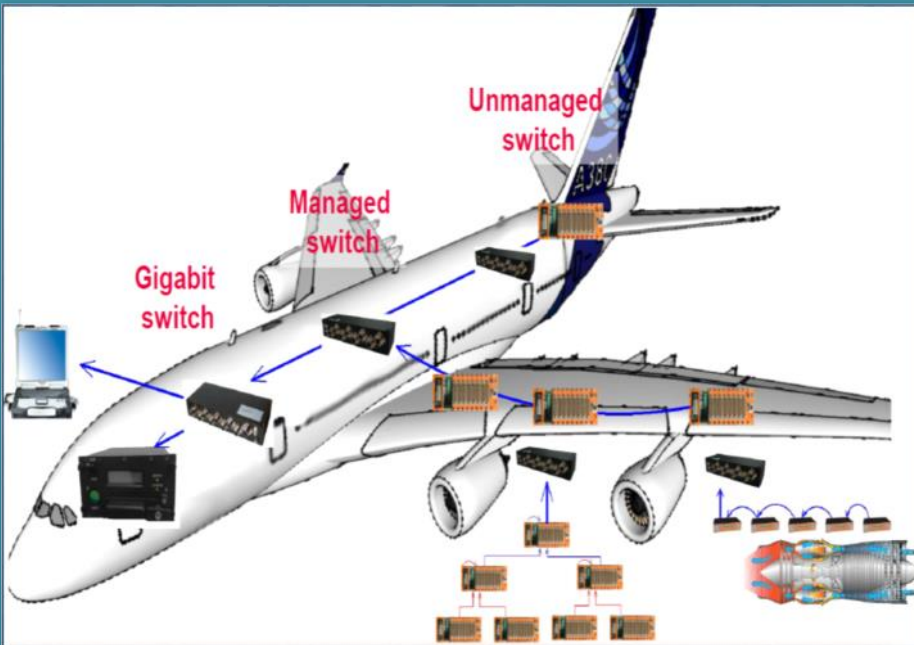
**TRANSECTOR**

[www.smithspower.com](http://www.smithspower.com)  
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**THERMACORE**  
Thermal Management Solutions

[www.thermacore-europe.com](http://www.thermacore-europe.com)  
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# Flight Test Instrumentation



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*The most widely installed FTI system in the world*



# Labelling

[www.brady.com.tr](http://www.brady.com.tr)

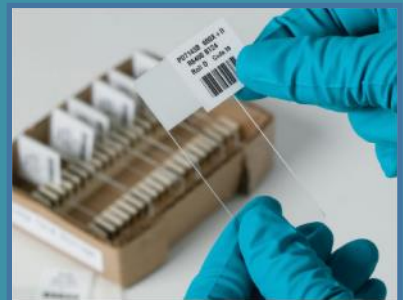
## LABEL PRINTERS



**BRADY**  
[www.brady.com.tr](http://www.brady.com.tr)

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## LABELS FOR LABORATORY



## LABELS FOR PANELS



## LABELS FOR SAFETY



## LABELS FOR PIPELINE



## LABELS FOR PCBs



## AREA MARKING



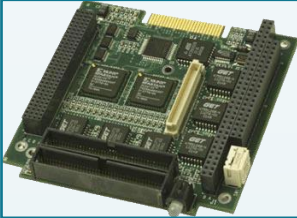
## LABELS FOR VALVES





# Naval Tactical Data Systems

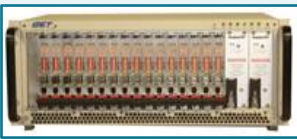
www.getntds.com



## Adapter Assemblies

Rugged Interfacing

GET Engineering solves the problem of difficult connection with their innovative array of adapter assemblies.



## NTDS Over Ethernet Systems

The ability to adapt to any situation at anytime



## Fiber Optic solutions

"Out of range" needn't be in your vocabulary



## Tactical Data Processors

Easy connectivity enables legacy system modernization



## Cables and Connectors

Light weight, adaptable connections for NTDS



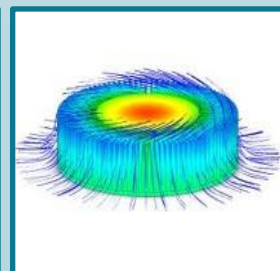
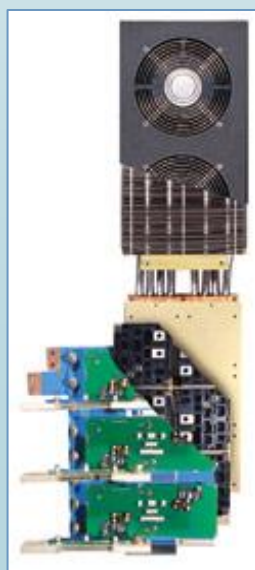
## Products

Adapter Assemblies  
Virtual Adapters  
NTDS Over Ethernet Systems  
Fiber Optic Products and Systems  
Tactical Data Systems  
Cables/Connectors

## Virtual NTDS (V-NTDS)

V-NTDS is a revolutionary new communications method for Navy Tactical Data Systems (NTDS). Expensive dedicated NTDS adapters and bulky costly cables are no longer necessary for NTDS communication. Your existing system resources are used to transfer NTDS signals between devices. Adaptable APIs allow you to continue to use your qualified applications with little or no modification.

# Power Electronics



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**PolyPhaser**

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**PAYTON**  
PLANAR  
Innovation • Design • Performance

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Thermal Management Solutions

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**TRANSTECTOR**

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# RF & Microwave Products

## RF Inductors



## Silicon Diodes



## RF & Microwave Modules



## RF Coaxial Connectors



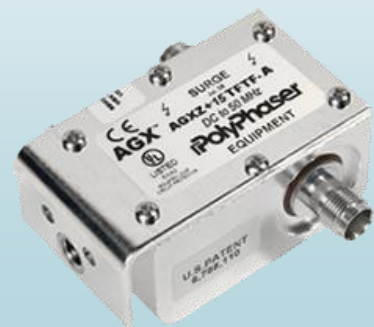
## RF Cable



## RF & Microwave Switches



## RF SURGE PROTECTION



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**Radiall**

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# Safety Products

www.brady.com.tr



**Ball Valve Lockouts**



**Cable Lockouts**



**Circuit Breaker Lockouts**



**Miniature Circuit Breaker Lockouts**



**Butterfly Valve Lockouts**



**Pneumatic Lockouts**



**Plug Lockouts**



**Lockouts Kits**



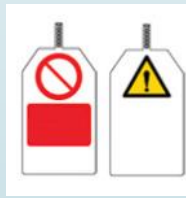
**Ball Valve Lockouts**



**Push Button Lockouts**



**Tags**



**Tagout**



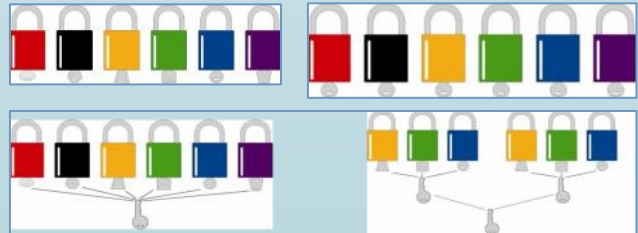
**Universal Valve Lockouts**



**Gas Cylinder Lockouts**



**Padlocks**



# Sensors, Accelerometers, Gyroscope

[www.innalabs.com](http://www.innalabs.com)

SPACE



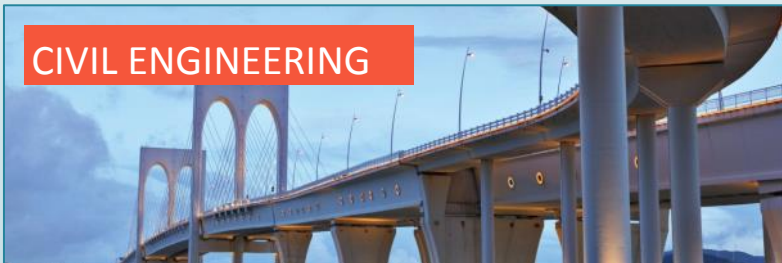
AEROSPACE



MARINE



CIVIL ENGINEERING



TRANSPORTATION



LAND



**GYROSCOPE**



**ACCELEROMETERS**



**APPLICATIONS**

Gunner & Commander sights stabilization

Antennas and Radars stabilization

Aircrafts & unmanned vehicles Navigation

Inertial measurement units (IMU)

Inertial Navigation Systems (INS & INS/GPS)

# SIGINT, EW

[www.irf-solutions.com](http://www.irf-solutions.com)

**Intelligent RF Solutions (iRF)** supports global defense and intelligence missions with custom developed and designed solutions for SIGINT and EW missions.

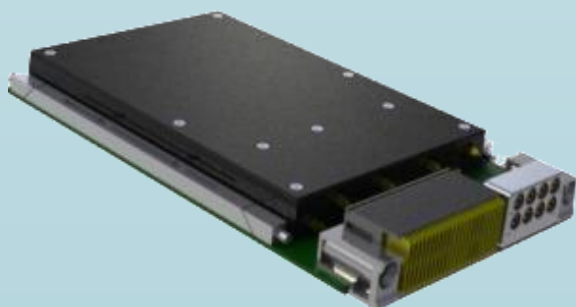
## **iJammer Miniature Microwave Up Converter**



## **iWR-7610 6-18GHz Dual Channel Microwave Tuner**



## **iWR-6800 Single Channel 0.5 to 20 GHz Microwave Receiver**



[www.irf-solutions.com](http://www.irf-solutions.com)

- ◆ SEARCH RECEIVERS
- ◆ SET-ON RECEIVERS
- ◆ FREQUENCY EXTENDERS
- ◆ UP CONVERTERS
- ◆ REMOTE SPECTRUM DISPLAY
- ◆ MULTICOUPLERS

# Space Qualified Products

## Inductors



## Isolators Filters and Duplexer



Curtiss-Wright's data acquisition hardware can be used for space telemetry and telecommand applications for onboard space data handling or as a payload interface unit

## Waveguide to coaxial adapters, couplers, combiners, loads



## PLANAR TRANSFORMERS

The magnetics in space applications must operate in an extreme temperature environment with significant weight and size restrictions.



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INTERNATIONAL**

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## TEST BENCHES



# SWaP

SWaP : Optimization for size, weight and power

## HIGH TEMPERATURE TOROIDS



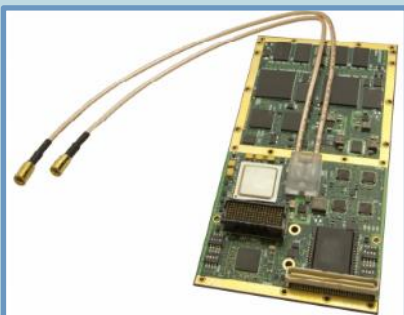
## PLANAR TRANSFORMER



## HYBRID CAPACITORS



## RAW VIDEO CAPTURE



## G-BAND TRANSMITTER



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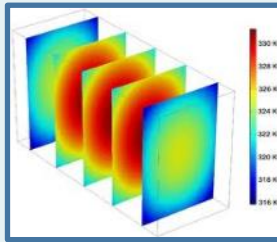
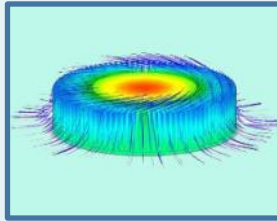
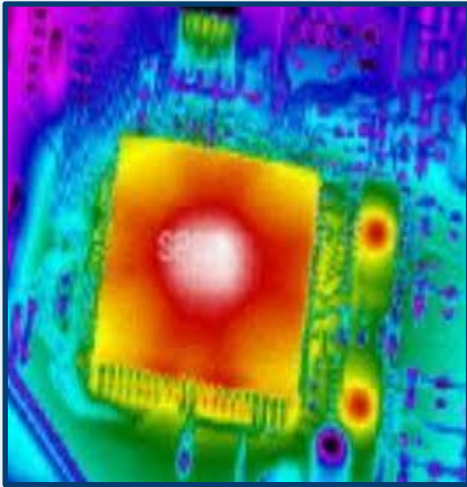


[www.smithspower.com](http://www.smithspower.com)

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# Thermal Management



In recent years, THERMAL MANAGEMENT SOLUTIONS have become crucial requirements for most of the markets where protection of electronics is a MUST!

In almost all demanding applications such as those in defense, aerospace, communications, transportation, medical, computers and data centers, advanced cooling solutions are required not only for protecting but also for improving the longevity and the reliability of electronic equipment and systems.

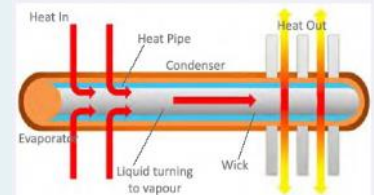
BUPAT offers a vast amount of solutions through her partners ( STEGO and THERMACORE) to meet the most demanding thermal management requirement of the multitude of the industries in TURKEY!



[www.thermacore-europe.com](http://www.thermacore-europe.com)

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## Two Phase Cooling - Heat Pipes



[www.stego.de](http://www.stego.de)

Pa



# Weapons Carriage and Release COBHAM Mission Systems

## Air-to-Ground Weapons Carriage and Release Systems

Cobham's Air-to-Ground Weapons Carriage and Release products for combat aircraft include a range of rail launchers and bomb racks which are compatible with a wide selection of smart and dumb munitions including Small Diameter Bomb, Brimstone and Hellfire missiles.



## Air-to-Ground Rail Launchers

Cobham's Air-to-Ground missile rail launcher weapons systems technology provides fast jets, helicopters and UAV's with the ability to safely carry and release air to ground missiles.



### Twin carriage missile launcher systems

Optimised for the suspension and release of air to ground store from lighter platforms such as unmanned aircraft and helicopters or fast jets with a smaller payload configuration requirements.



### Triple carriage missile launcher systems

Provided for multiple weapons to be carried at any one time supporting critical operations such as close air support for troops on the ground.

**COBHAM**



**Experience is drawn from the design development, production and support of weapons carriage systems on:**

*F-15E, F-16, F/A22, F-35, Typhoon, Gripen, Hawk, Jaguar, Harrier, Tornado, T-45 Goshawk, Blackhawk, Tucano, Alpha Jet, Sea King, L-159, KA-1, Phantom, Nimrod, Mirage 2000, MIG 21, Alpha Jet, Canberra, F2, Hunter, Kirin, Strikemaster, Tejas.*

# AA SYSTEL

[www.aasystel.com](http://www.aasystel.com)

## AA SYSTEL France (AA GROUP)

is specialized in: Telemetry, Telecommand, Tracking antenna, Remote sensing, SATCOM system design and turnkey fully integrated system. (Including Airborne Data Acquisition Recording system, RF Transmission System, Telemetry Ground Station).



- ◆ **TELEMETRY**
- ◆ **SATCOM**
- ◆ **DATALINK**

**1.5 m dish antenna for  
Telemetry /Tracking**



**Ground  
Station**



**S-Band TTCET Ground Station**



# Anodyne Electronics Manufacturing Corp.

www.aem-corp.com



**Tac/Com Tactical FM Communications**



**Audio Controllers**



**Public Address Siren Systems**



**Electronics Assembly and Test**



**AEM is a leading designer and manufacturer of**

- ♦ Avionics,
- ♦ Aircraft audio systems,
- ♦ Intercoms,
- ♦ Tactical FM radio systems,
- ♦ Illuminated panels & display products,
- ♦ External PA systems,
- ♦ Audio amplifiers,
- ♦ Audio adapters and remote switch assemblies.



**Before After**  
**Manufacture and repair panels**

# AOS Technologies AG

[www.aostechnologies.com](http://www.aostechnologies.com)

**AOS Technologies AG** is a worldwide leading manufacturer of high speed cameras, high speed streaming systems, fast industrial vision systems offering turn key installations for its broad customer base. AOS products serve as the high speed measurement devices in demanding defence applications such as airborne store separation tests.



HD-TV Format @ up to 2000fps

Q-MIZE 1300x1060 Pixel image resolution up to 1'000fp

S-MIZE HD HD-TV Format @ up to 1000fps

S-MIZE 1.3 MPixel image resolution up to 500fps



S-MIZE EM 1280 x 1024 up to 500fps / up to 100'000 with reduced resolution

Q-MIZE EM 3 MPixel image resolution up to 500fps



Q-VIT 3 MPixel image resolution up to 500fps

Q-PRI 3 MPixel image resolution at 500fps

Q-EM 3 MPixel image resolution up to 500fps

S-VIT 800 x 600 pixel up to 1250fps / 900 x 700 pixel up to 1000fps / 1280 x 1024 up to 500fps

S-MOTION 1280 x 1024 up to 500fps / up to 100'000 with reduced resolution



S-PRI Basic resolution of 800 x 600 pixel up to 1250 fps resp.900 x 700 pixel @ 1000fps



S-EM 1280 x 1024 up to 500fps / up to 100'000 with reduced resolution

X-EMA 1280 x 1024 up to 500fps / up to 32'000 with reduced resolution



TRI-VIT 1280 x 1024 up to 1000fps / up to 100'000fps with reduced resolution



## High Speed Cameras

High speed cameras can record the details of fast mechanical movements and play them back in slow motion.

Whether industrial and research applications where high light sensitivity is required or applications under high g-force and vibration, AOS cameras prove their value by providing crisp clear images in slow motion to the user. Last but not

least... good news for your budget. AOS

always has an eye on the economics of high speed cameras and is committed to bringing their customers the very best cameras at

affordable prices. In industrial production and manufacturing high speed cameras are an important tool to optimize production cycles. A

common problem in today's fast production systems is maintaining the desired throughput and cadence levels with a minimum of downtime. Our high speed cameras and PROMON high speed long time recording system are the ultimate tool to aid maintenance

and design engineers in the troubleshooting and optimization of production cycles.

## APPLICATIONS

**AUTOMOTIVE**

**DEFENCE**

**INDUSTRIAL**

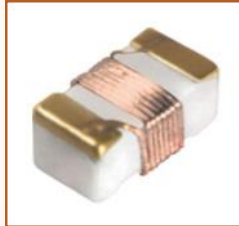
**RESEARCH**

**VARIOUS**

# API Delevan

www.delevan.com

API Delevan is manufacturer of inductors, power inductors, RF coils, chokes and transformers.



## Military and Aerospace Resolvers

Resolvers are self-contained feedback devices that, unlike optical encoders, provide an analog signal with infinite resolution. Not only can the output signal be converted to precise digital position information, but it also provides an accurate velocity signal; eliminating the need for using separate tachometer. Reliability is enhanced using the same resolvers for speed feedback and commutation.

**For Position, Commutation, and Velocity Feedback.**



### APPLICATIONS

- \* Motor commutation and velocity feedback
- \* Engine fuel control
- \* Missile fin actuator control

## API Delevan

### PRODUCTS

- ◆ RF Inductors
- ◆ Power Inductors
- ◆ EMI/RFI Suppressors
- ◆ Transformers

### APPLICATIONS

MILITARY



AEROSPACE



AVIONICS



MEDICAL



COMMUNICATIONS



# BRADY Label Printers

[www.brady.com.tr](http://www.brady.com.tr)



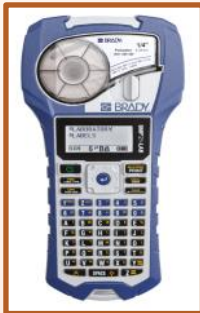
**BMP™ 71**



The **BMP™71** – Mobile Label Printer is Brady's newest high end portable cable and wire label printer. As well as being the ideal cable and wire printing solution for the telecom/datacom and electrical markets, the BMP71 is also perfect for printing health and safety signs and labels in the process industries.

**BMP21-LAB**

79€+KDV



**BBP™ 31**

1795€+KDV



**BMP™ 41**

435€+KDV



**BMP21 PLUS**

79€+KDV



**BBP™ 33**

1465€+KDV



**BMP51**

595€+KDV



# BRADY LABELS

[www.brady.com.tr](http://www.brady.com.tr)

Wire & Cable Markers



Electrical Component & Hardware Labels



Datacom/Telecom Labels



Circuit Board & Component Labels



Laboratory Labels



General Labelling & Equipment Identification



Security Labels



Laser Printer Labels



DOT Matrix Labels



Pipeline Labels



Pipeline Labels



Safety Identifications





# Cobham Aerospace Communications

Dourdan France

**COBHAM**



General Aviation and Helicopter VHF Communication



Slow Profile VHF Communication Antenna



VHF and UHF Communication Antenna with reduced resolution



VHF Communication Antenna for High Performance and Wide Body Aircraft



Aircraft Glide Slope Antenna



ATC-IFF/DME-TACAN/TCAS Antenna



MLS Omnidirectional



MLS Directional Antenna



Aircraft Localiser Antenna



VOR Antenna for Regional and Medium Range Aircraft



Helicopter Glide Slope Antenna



Marker Beacon Antenna



VOR Antenna for Long Range and Wide Body Aircraft



VOR/LOC/GS Aircraft Antenna



ELT Aircraft Antenna for General Aviation and Helicopters



High Performance ELT Aircraft Antenna

- ◆ Aircraft Communication Antennas

- ◆ Aircraft Navigation Antennas

- ◆ ELT Antennas

## Cobham Aerospace Communications

is the world leader in the design and manufacture of antennas, enabling platforms such as General Aviation, Helicopter, Business Jet, Regional Jet, Medium Range, Long Range and Wide Body aircraft.

# Cobham Antennas

## Newmarket UK

**COBHAM**

	MIMO Antennas		Electronic Warfare Antennas - Ultra Wideband (UWB)
	COFDM Antennas		Wireless LAN Antennas
	RFID Antennas		Cellular Antennas
	Outside Broadcast Antennas		PMR/Tetra Antennas
	DAS Antennas		C-Band Antennas - 4.7 GHz
	Radar Antennas		UAS Antennas
	Ground Control Antennas		Tactical Communications Antennas - Link16
	Security and Surveillance Antennas		Emergency Services Antennas
	Telemetry Antennas		COFDM Antennas

- **100MHz and 25GHz**
- **Sector and Multi Sector**
- **Directional Flat Panel**
- **Omni-Directional**

### Microwave Antennas from Cobham Antenna Systems

are developed and manufactured to a high specification on behalf of customers for harsh environments, dense RF locations and areas with limited physical space. Robust and proven in the field and used worldwide, more than 1500 existing antenna designs are available.

# Cobham Antenna Systems

## Marlow, UK

### Communication and Navigation Antennas and Products

Cobham Antenna Systems is a leading manufacturer of communication, navigation and GPS antennas for general aviation, helicopters and light jets. We innovate with ideas like ComDat<sup>®</sup> multi-function antennas that combine critical functions in one radome... saving time, space and money.

- **GPS Navigation Antennas**
- **Antenna Couplers / Combiners and Diplexers**
- **Electrostatic Dischargers for Antennas**
- **General Aviation Antennas**
- **Marker Beacon Antennas**
- **Airborne Search and Rescue Systems**
- **Tactical Land Antennas**

### Interference Cancellation Systems

Cobham Antenna Systems miniaturised INTERference CANCELLation (mINCAN) system eliminates mutual interference when multiple radio systems are integrated into tactical land, marine and airborne platforms.



**COBHAM**

- ◆ **Communication and Navigation Antennas**
- ◆ **Airborne Antenna Systems Support**
- ◆ **Airborne TETRA Systems**

### Products and Services

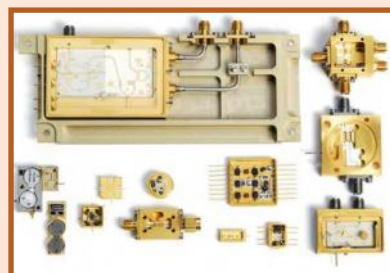
Cobham Antenna Systems are the World's leading supplier of Avionic -standard TETRA systems, with ten years experience in fielding TETRA in aircraft. Learn more about our products and services.

# COBHAM Microwave France

[www.cobham.com](http://www.cobham.com)

## Microwave Components and Systems

Our areas of capabilities are Silicon Diodes, RF & Microwave Modules, Isolators & Circulators, Filters & Duplexers, Waveguides and Systems. Our products are qualified and embedded on major space, defense & security, industrial, scientific and medical programmes and platforms worldwide.



**COBHAM**

- ◆ Silicon Diodes
- ◆ RF and Microwave Modules
- ◆ Isolators and Circulators
- ◆ Waveguides, Couplers and Adapters
- ◆ Filters and Duplexers
- ◆ Systems and Test Benches

## APPLICATIONS

**SPACE**

**DEFENSE &  
SECURITY**

**INDUSTRIAL**

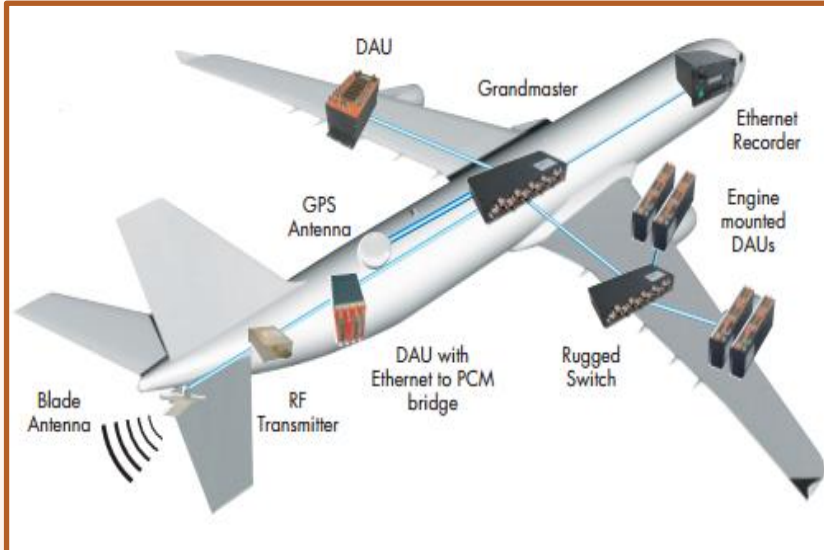
**SCIENTIFIC**

**MEDICAL**

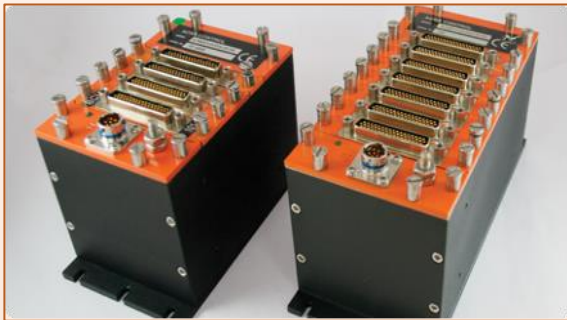
# CURTISS WRIGHT

www.cwc-ae.com

## Flight Test Instrumentation & Equipment



## DATA ACQUISITION



## GROUND STATIONS



**CURTISS-  
WRIGHT**

Flight Test Instrumentation (FTI) refers to the equipment flight test engineers use to collect data from a platform during its flight test campaign. FTI usually consists of sensors, an airborne data acquisition system and monitoring equipment. This specialized flight test equipment must operate in a harsh environment such as high vibration, shock, temperature gradients etc. Most importantly, they must operate reliably under these conditions. Flight testing time lost due to equipment failure can be extremely expensive.

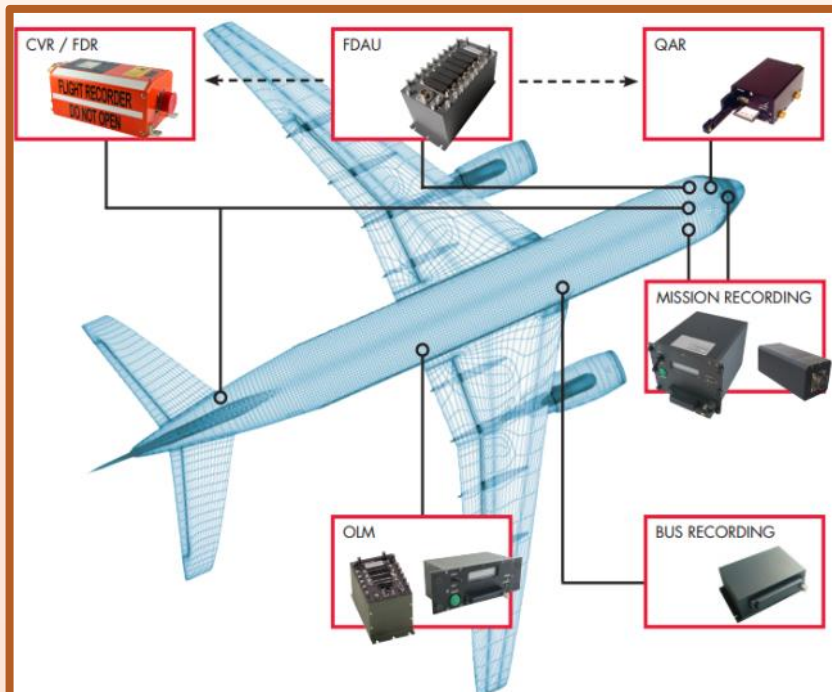
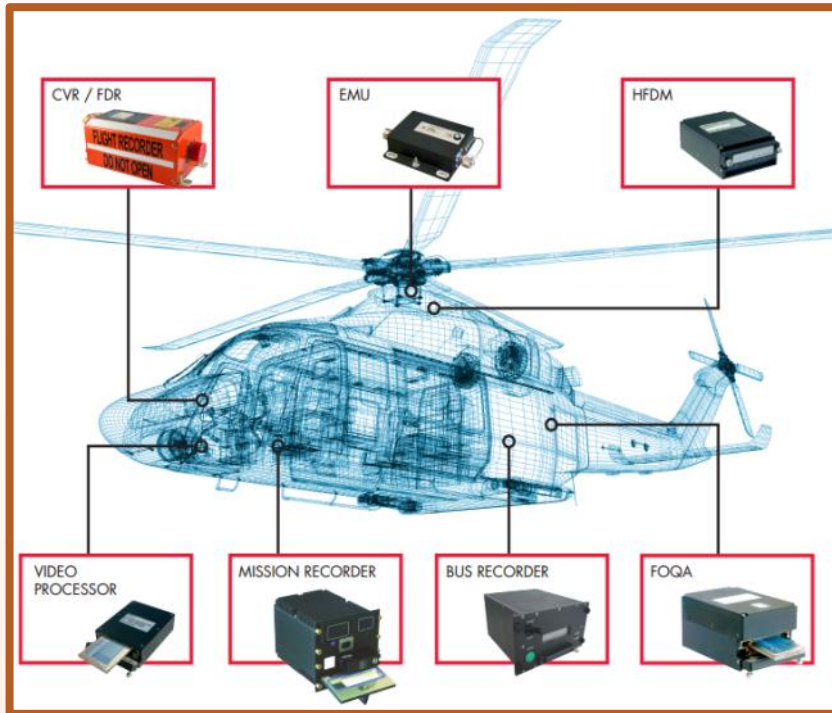
## APPLICATIONS

- Airborne Recording
- Avionics Applications
- Flight Test
- Aircraft Environmental Protection

# CURTISS WRIGHT

www.cwc-ae.com

## Airborne Recording



Curtiss-Wright recorders are qualified under MIL-STD and DO-160 environmental standards including additional crash protection in accordance with EUROCAE ED-112.

**CURTISS -  
WRIGHT**

- ◆ Mission Recording
- ◆ Lab & Deployed Data Recording
- ◆ Video Recording & Evidence Gathering
- ◆ Aircraft Engine Monitoring
- ◆ Helicopter Usage Monitoring
- ◆ Aircraft Structural Integrity Program
- ◆ Health and Usage Monitoring
- ◆ Flight Data Recording
- ◆ Data Storage and Encryption
- ◆ Cockpit Voice Recording
- ◆ Flight Data Acquisition Unit (FDAU)
- ◆ Aircraft Vibration Monitoring
- ◆ Aircraft Condition Based Maintenance
- ◆ Flight Operational Quality Assurance (FOQA)

# CURTISS WRIGHT

www.cwc-ae.com

## Air Data & Controllers

### AIR DATA UNITS



Curtiss-Wright air data systems are the primary air data computer for over 10,000 fixed and rotary wing vehicles. They measure static and total air pressure and provide altitude and airspeed information to the pilot, auto pilot and navigation systems.

### CONTROLLERS



Controllers, such as the Utility Management System (UMS), can be employed as a local controller providing closed-loop control, with internal monitoring and status, at a local level based on digital data commands from the aircraft systems.

### ICE DETECTION & PROTECTION



Curtiss-Wright offers autonomous ice detection and protection systems that can act independently of an aircraft crew to detect and prevent any unwanted ice build-up.

### DATA CONCENTRATOR



Designed to the most stringent aerospace requirements, Curtiss-Wright's Data Concentrator Units (DCU) are microprocessor-based controllers that receives a diverse assortment of discrete, analog and digital inputs to process and format them into other common digital data formats for various aircraft systems' consumption.

### FIRE PROTECTION SYSTEM



This more robust design can eliminate more than 99 percent of the false alarms that are commonly encountered in the aircraft environment, compared to existing optical smoke detector technology. This is achieved using sophisticated particle discrimination technology and highly reliable components.

## CURTISS- WRIGHT

- ◆ Air Data Units
- ◆ Controllers
- ◆ Ice Protection & Detection
- ◆ Test Equipment
- ◆ Data Concentrators

## APPLICATIONS

- ◆ Airborne Recording
- ◆ Avionics Applications
- ◆ Flight Test
- ◆ Aircraft Environmental Protection
- ◆ Space

# EMHISER

[www.emhiser.com](http://www.emhiser.com)

Over 30 years of experience in developing and manufacturing Space, Airborne and Ground based telemetry products. Emhiser is a tested and reliable source for the Aerospace and Defense Industries.



## Standard Telemetry Products

- ◆ Wideband DC Coupled Transmitters and Receivers
- ◆ Digital Transmitters and Receivers
- ◆ Video Transmitters and Receivers
- ◆ Telemetry Transmitters and Receivers
- ◆ FSK Transmitters and Receivers

## PRODUCTS

- ◆ AMPLIFIERS
- ◆ COMMAND EQUIPMENT
- ◆ RECEIVERS
- ◆ TRANSMITTERS



### VIDEO TRANSMITTER



### COMMAND TRANSMITTER / ENCODER



### DIGITAL TRANSMITTER





# EVANS Capacitor Company

www.evanscap.com

## HYBRID CAPACITORS



Hybrid capacitors provide very high power and energy from devices much smaller and lighter than electrically equivalent tantalum wet, tantalum chip or aluminum electrolytic capacitors.

The Hybrid capacitor combines a high voltage electrolytic type anode bearing a Ta<sub>2</sub>O<sub>5</sub> dielectric with a low voltage, high energy density electrochemical supercapacitor RuO<sub>2</sub> cathode. Unlike other super capacitors, use of the dielectric permits higher voltage operation of single cells. Thus, the Hybrid capacitor can operate at higher voltages without the need for series connected cells.

## Capattery EDLC Capacitors



## Hybrid Capacitors



## Hybrid Capacitor Modules



**Hybrid Capacitors** save weight, volume and cost when compared to other military tantalum wet or aluminum electrolytic capacitors.

## APPLICATIONS

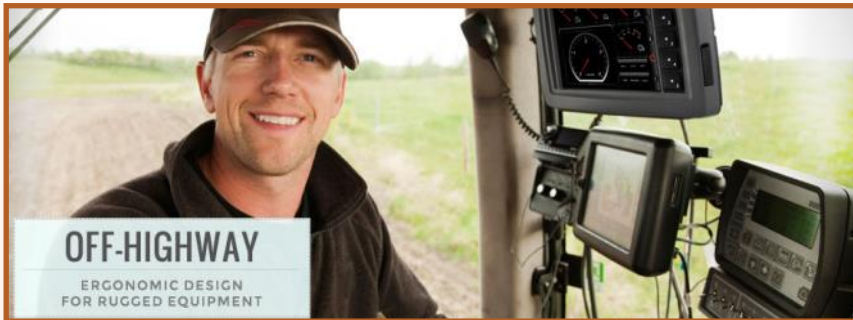
### Evans Capacitor

manufactures high energy density capacitors for demanding defense and aerospace applications. Typical applications replace standard military capacitors, or augment batteries and power supplies where size, weight, reliability and quality are important factors of component selection. Evans maintains the highest levels of quality, and is ISO 9001.

# GRAYHILL

[www.grayhill.com](http://www.grayhill.com)

Grayhill, Inc. designs and manufactures a broad line of intuitive human interface components and custom solutions that make life simpler, safer and more efficient. Standard products include optical encoders, rotary switches, keypads, joysticks and pushbuttons. Our components can be customized for your application or integrated into a complete front panel solution. Grayhill specializes in creating custom operator interface panels and portable product shells that integrate our components, displays and wired or wireless communications into an ergonomic, user-friendly device.



- ◆ Custom Human Interface Assemblies
- ◆ Rotary Switches
- ◆ Mechanical Encoders
- ◆ Optical Encoders
- ◆ Instinct Touch Technology
- ◆ Joysticks
- ◆ Keypads
- ◆ Pushbutton and Tact Switches
- ◆ Toggle, Rocker and Slide Switches
- ◆ DIP Switches
- ◆ I/O Modules and Racks

## APPLICATIONS

**MILITARY**

**MEDICAL**

**INDUSTRIAL**

**Off-Highway**

**Vehicles**

# GRAYHILL

[www.grayhill.com](http://www.grayhill.com)

**DISPLAY**



**JOYSTICK**



**KEYPAD**



**ROTARY SWITCH**



**MECHANICAL ENCODER**



**OPTICAL ENCODER**



**MULTI-TOUCH**



**PUSHBUTTON**



**TACTILE**



**SLIDE**



**DIP SWITCH**



**ROCKER**



**TOGGLE SWITCH**



**I/O MODULE**



*Grayhill*

# PAYTON

www.paytongroup.com

## Planar Transformers Family

5 to 15W Planar Transformers



25 to 100W Planar Transformers



25 to 140W Planar Transformers



50 to 400W Planar Transformers



80 to 600W Planar Transformers



200 to 1kW Planar Transformers



200 to 1400W Planar Transformers



300 to 1000W Planar Transformers



500 to 2.6kW Planar Transformers



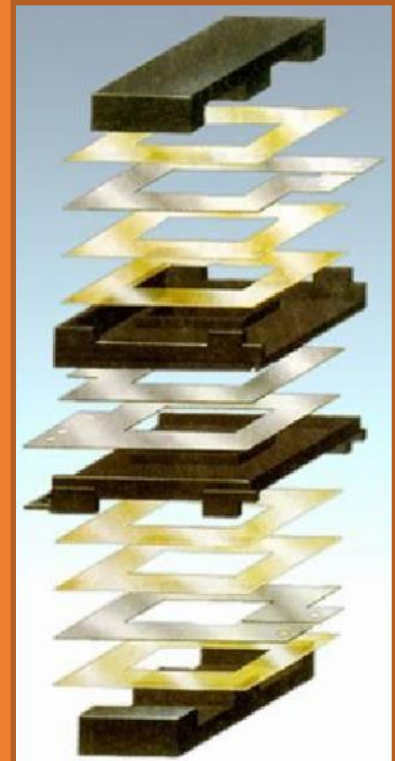
500 to 5kW Planar Transformers



1kW to 10kW Planar Transformers



5kW to 20W Planar Transformers



### The Benefits of Planar Magnetics in HF Power Conversion

- ◆ Reduction of switching losses
- ◆ Improving the current handling of filter capacitors
- ◆ Combating copper losses due to the 'skin effect'
- ◆ Reducing core losses
- ◆ Improving heat conduction

# POINTER AVIONICS

[www.skyhunter406.com](http://www.skyhunter406.com)

SkyHunter 406 Model AF is an automatic Fixed type ELT suitable for GA, Commercial, and Military Aviation, that comes with an internal GPS receiver and an internal GPS antenna. Remote switch installation does NOT require aircraft power.



406 ELT Auto Fixed with High Velocity Antenna, PREWIRED  
REMOTE SWITCH

406 ELT Auto Fixed with Whip Antenna, PREWIRED REMOTE  
SWITCH

406 ELT Auto Fixed - Helicopter with High Velocity Antenna,  
PREWIRED REMOTE SWITCH

406 ELT Auto Fixed - Helicopter with Whip Antenna,  
PREWIRED REMOTE SWITCH

406 ELT Auto Fixed with High Velocity Antenna, NOT PRE  
WIRED REMOTE SWITCH

406 ELT Auto Fixed with Whip Antenna , NOT PREWIRED  
REMOTE SWITCH

406 ELT Auto Fixed Transmitter ONLY

406 ELT Auto Fixed- Helicopter with High Velocity Antenna,  
NOT PREWIRED REMOTE SWITCH

406 ELT Auto Fixed - Helicopter with Whip Antenna,  
NOT PREWIRED REMOTE SWITCH

406 ELT Auto Fixed-Helicopter Transmitter ONLY



## PRODUCTS

[406 ELT](#)

[406 ELT Batteries](#)

[406 ELT Antennas](#)

[406 Programming  
Keys](#)

[406 ELT Accessories](#)

## 406 ELT Antennas

GPS Antenna -  
Cockpit Mounted

Aircraft Mounted  
GPS Antenna

High Velocity  
GPS Antenna

406 Mobile Antenna

# RADIALL

[www.radiall.com](http://www.radiall.com)

Today, Radiall is a global manufacturer of high reliability interconnect components for numerous demanding industries including Aerospace, Defense, Industrial, Medical, and Telecommunications.



## Antennas

Radiall provides highly reliable antenna solutions for industrial and military applications. Our solutions include Line-Of-Sight tactical communications, vehicular mount, GPS, telemetry, and mesh networks.



## Fiber Optics

Radiall designs and supports high performance end-to-end Optical Interconnect solutions. Our offer includes standard interfaces, optical termini and connectors, and custom design optical assemblies and subsystems. The flexibility and high quality of our product range support harsh environments and demanding applications.



## Microwave Components

Radiall has a wide range of coaxial devices, including terminations, attenuators, and couplers using standard interfaces from low to high power. Our state of the art techniques enable us to produce microwave components for use in commercial, military, and space applications.



## Multipin Connectors

Radiall has an unmatched range of rack and panel connectors and the most innovative modular and tool-less connectors used in harnesses and equipment connections. Our modern designs combine light weight, high performance levels and user friendly features to simplify even the most complex connections.



## PRODUCTS

- ◆ Antennas
- ◆ Fiber Optics
- ◆ Microwave Components
- ◆ Multipin Connectors
- ◆ RF Cable Assembly
- ◆ RF Coaxial Connectors
- ◆ RF & Microwave Switches
- ◆ Space Qualified Components

## APPLICATIONS

Aerospace

Defense

Industrial

Instrumentation

Medical

Space

Telecom



## RF Cable Assembly

Radiall has an extensive range of cable assemblies with outstanding electrical performance, low loss, and high frequency. Our range includes flexible, semi rigid and handformable cable assemblies. Our TestPro™ range meets the stringent requirements needed for test and lab applications.



## RF Coaxial Connectors

Radiall proudly offers the widest range of RF Coaxial Connectors in the Industry with over 6,000 part numbers and 72 product series including AEP® Mil QPL connectors. These precision-made components are a significant part of our heritage and essential to who we are



## RF & Microwave Switches

All Radiall switches provide exceptional reliability and performance. A unique modular and patented design of the actuator and transmission link enables Radiall to guarantee operation up to 10 million cycles with excellent repeatability, while reducing delivery times.



## Space Qualified Components

Industry leaders across the globe recognize the Radiall brand for quality, reliability, and performance. Our Space Qualified passive product offering includes a wide range of coaxial connectors, cable assemblies, microwave components, and switches with a frequency range up to Ka band.



## PRODUCTS

- ◆ Antennas
- ◆ Fiber Optics
- ◆ Microwave Components
- ◆ Multipin Connectors
- ◆ RF Cable Assembly
- ◆ RF Coaxial Connectors
- ◆ RF & Microwave Switches
- ◆ Space Qualified Components

## APPLICATIONS

Aerospace  
Defense  
Industrial  
Instrumentation  
Medical  
Space  
Telecom

# RADIALL

[www.radiall.com](http://www.radiall.com)

D-Lightsys, a Radiall Company, designs and manufactures high performance optical interconnect solutions for severe environment applications. In particular, D-Lightsys offer products and know-how fitting the requirements of avionics, space, transports, defense and scientific industries.



AEROSPACE



DEFENCE



INDUSTRIAL



SPACE



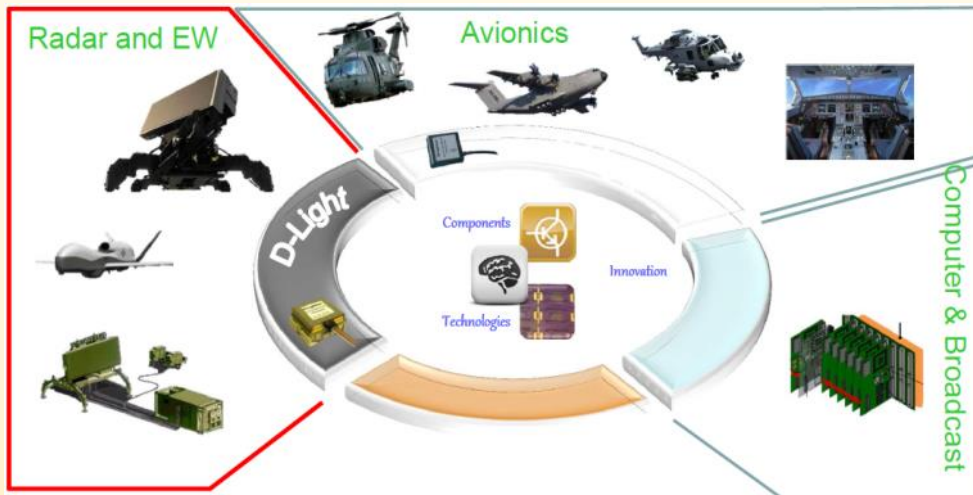
TELECOM



INSTRUMENTATION



MEDICAL



- The S-Light family, which gathers D-Lightsys **optoelectronic transceivers** (1Tx+1Rx) and single channel modules (Tx or Rx)
- The D-Light family, which gathers D-Lightsys parallel modules



**New! 2.4mm**  
precision coaxial connectors series



**New! 2,4mm**  
Microwave terminations  
dedicated for Test &  
Measurement equipment  
up to 50 GHz







## SkyTrac

SkyTrac brings more than 25 years of experience to the aviation marketplace. Our initial challenge was to provide aviators with connectivity where none was previously available. We developed a method to ensure useful real-time flight data was available at all times, regardless of the mission, type of aircraft, or the remoteness of the operation. Since then SkyTrac has continued to lead the commercialization and evolution of flight following, flight data, and communication technology.

### The SkyTrac Advantage

SkyTrac sets itself apart by offering proven, seamless, end-to-end solutions that support aviation operations in the air, on the ground, and in the office.

Our SkyWeb product provides a superior interface for operators to manage their operations, assets and communications. Whether using SkyTrac's avionics product line or interfacing other avionics, our ability to integrate your flight data into your business systems is second-to-none.

Our diverse team of professionals are passionate about supporting your operation. We have a world-class team of engineers and support staff that ensure you are connected 24/7 and that your data works hard for you!

Your data will be stored at SkyTrac's two fully redundant data centers. Each data center has multiple internet sources and electrical power so your data is fully protected and your unlimited access is assured. To cap our commitment to you, SkyTrac personnel are on-call 24 hours a day, 7 days a week to support you and your operations.



# SLOAN

www.sloan.ch

Ever since SLOAN AG designs, manufactures and distributes electronic and electrooptical components which meet the highest standards for quality, durability and performance. In more than 30 years of service to the military and commercial markets SLOAN has developed the largest range of quality indicators and continues to introduce new, up-to-date products.



## NEW PRODUCTS

### Indicator Lights



Flat Indicator Lights



Indicator Lights with Reflector



Indicator replaceable from the front



Plastic Indicator Lights



Indicator Lights with Colour Cap



Special Indicator Lights



974 978

Flat indicator lights



Based LED's



LED-Modules



Industrial LED Applications



LED Controllers & Power supplies



349

Flat indicator lights with light pipe

# SLOAN

www.sloan.ch

**STOCK**

## 344 SERIES LED INDICATORS

**2.1 V 20 mA**  
**5 V and 28 V**



**RED**

**GREEN**

**YELLOW**

### IP 64

Body	1-10 pcs	11-50 pcs	51-100 pcs	101-500 pcs
Blackened	12.93€	11.63€	9.69€	7.75€
Nichel Plated	11.64€	10.47€	8.73€	6.98€
Stainless Steel	14.31€	12.87€	10.73€	8.58€+KDV

### IP 67

Body	1-10 pcs	11-50 pcs	51-100 pcs	101-500 pcs
Blackened	13.61€	12.24€	10.20€	8.16€
Nichel Plated	12.25€	11.02€	9.18€	7.35€
Stainless Steel	15.11€	13.60	11.33€	9.06€ +KDV

### IP 68

Body	1-10 pcs	11-50 pcs	51-100 pcs	101-500 pcs
Blackened	14.10€	12.69€	10.57€	8.46€
Nichel Plated	12.69€	11.42€	9.51€	7.61€
Stainless Steel	15.65€	14.08€	11.73€	9.39€ +KDV



## LED STRIP



### 12 V FLEXIPRINT

#### Specifications

Voltage 12V  
Current 2A  
Wattage 4.8W/m  
Number of LED's 300pcs  
Length of Stripe 5m  
Operating Temp. -25°~+60°C  
Storage Temperature -40°~+80°C  
Viewing Angle 110°  
CE/UL/RoHS compliant

FP5-H01B-500 warm-white  
FP5-N01B-500 warm-white  
FP5-S01B-500 natural-white  
FP5-W01B-500 white

#### PRICES

**1-10 pcs 20.00 TL/m**  
**11-30 pcs 17,50 TL/m**  
**31-100 pcs 12,50 TL/m**  
**+KDV**

# SMITHSPower

www.smithspower.com

## Coaxial RF Protection

Ultra-Low PIM Protectors  
DC Block Filters and Arrestors  
DC Pass Arrestors  
Protected Bias-T  
Grounding Solutions



## Data Line Surge Protection

Multi-Protocols  
PoE, Gigabit PoE, GbE, T1/E1  
RS-232 | RS-422 | RS-485  
Rack Mount



## AC Surge Protection

Panel Protectors  
Rack Mount  
Plug-In  
DIN Rail  
Hardwire



## DC Surge Suppression

DIN Rail  
Hardwire  
High Voltage DC Protection  
Low Voltage DC Protection  
Enclosure Solutions



## Integrated Power Protection Cabinets

## Power Distribution

**PolyPhaser**

**TRANSTECTOR**

PolyPhaser is considered the authority on lightning and surge protection. PolyPhaser has expanded its lightning protection platforms to include board-level protection, DC Pass, DC Block, Bias-T, Low PIM and customized integrated solutions.

Transtector Systems provides a complete approach for the protection of communications systems and critical electronics from lightning and power anomalies.

## APPLICATIONS

DATA CENTER

ENERGY

INDUSTRIAL

MEDICAL

MILITARY

RAIL

SECURITY

TELECOMMUNICATIONS

# SMITHSPower

[www.smithspower.com](http://www.smithspower.com)

## EMP—EMI PROTECTION

- EMI (electromagnetic interference)
- EMP (electromagnetic pulse)
- HEMP (high altitude electromagnetic pulse)
- SREMP (surface radiated electromagnetic pulse)
- NEMP (nuclear electromagnetic pulse)
- SGEMP (system generated electromagnetic pulse)
- HRM (high-powered microwave)
- Geomagnetic storms
- Tempests
- Internally generated transients
- Power grid anomalies
- Lightning induced transients

**PolyPhaser**

**TRANSTECTOR**



## APPLICATIONS

- Battlefield Electronics
- Vehicle Electronics
- Fixed and Mobile Structures
- Power Transmission Lines & Substations
- Main Distribution Panels and Sub Panels
- Protection of RF Frequencies up to 14 GHz
- Military and Civilian Aircraft
- Shipboard
- Communication Systems
- GPS Systems
- Ethernet, Gigabit, Data, T1/E1, POTS
- DC Applications (12 Vdc, 24 Vdc, 28 Vdc and 48 Vdc)
- C4ISR (Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance)



# STEGO

[www.stego.de](http://www.stego.de)

## SOLUTIONS FOR PERFECT THERMAL MANAGEMENT

STEGO has developed into a leading provider in the field of climatization of enclosures and switch cabinets.



### HEATING

**PANEL HEATERS, CABINET HEATERS, ENCLOSURE HEATERS**



### COOLING

Extreme high temperatures in enclosures and switch cabinets may cause malfunctions of electrical and electronic components. Our filter fan range, roof filter fans and further ventilation products prevent an overheating and the impairment of installations reliably.



### REGULATING

Ensure ideal conditions in your enclosures and switch cabinets with our temperature and humidity control systems: our temperature regulators and hygrometers control and regulate connected heaters, filter fans and heat exchangers in both AC as well as DC applications (DC regulators).



### LIGHTING

Create round the clock ideal lighting conditions in enclosures and cabinets. All LED lights, enclosure lights and cabinet lights of our well-rounded product range can be placed with only minimal installation effort.



### HEATERS



### FAN HEATERS



## Embedded Graphics and Video Products



**Condor 4000 XMC Series** *new*  
High Performance Rugged XMC Graphics with  
GPGPU Capability



**Condor 3000 XMC Series**  
High Performance XMC graphics with  
GPGPU capability



**Condor VC100 XMC Series**  
H.264 Compatible Video Capture XMC  
with up to 4 Video Inputs



**Condor 2100 XMC Series**  
Video Capture and Graphics Solution for  
Embedded System Applications



**Condor 2000 XMC Series**  
High Performance Graphics for  
Embedded System Applications



**Cambridge Pixel Products**  
Radar Processing Solutions  
Video Processing Solutions

## Video Processing



**Condor VC100 XMC Series H.264 Compression**  
H.264 Compatible Video Capture XMC  
with up to 4 Video Inputs



**Condor 2100 XMC Series Graphics and Video  
Capture**  
Video Capture and Graphics Solution for  
Embedded System Applications

**Tech Source** has been a pioneer in high performance computer graphics hardware solutions for niche markets. With a strong engineering team, the company has evolved over the years, now serving several markets that include Air Traffic Control/Management (ATC/ATM), avionics, military and embedded systems with several COTS (commercial off-the-shelf) and tailored (custom) products. The product range includes graphics, imaging and video capture boards, H.264 encoders and high compression video recorders.

# THERMACORE

[www.thermacore-europe.com](http://www.thermacore-europe.com)

## Advanced Solid Conduction



k-Core® enables the design and manufacture of advanced thermal components that are smaller, lighter k-Core® offers effective thermal conductivity of 1000 W/m-K, five times greater than that of solid aluminium and 2.5 times greater than that of solid copper.



**Get Better Thermal Performance — Keep Electronics Cooler with Thermal Spreader**



**k-Core®  
Radiator Panels**



**Thermal Straps: Efficient Cooling without Structural Loading**



**Thermal Management for Unique Protoflight Thermal Challenges**



**CTE-Matched Solutions: Better Heat Sink Performance**



## INDUSTRIES

- ◆ Aerospace/Avionics
- ◆ Chemical Processing
- ◆ Communications
- ◆ Computers and Data Centers
- ◆ Consumer Electronics
- ◆ Government/Education
- ◆ Injection Moulding
- ◆ Medical
- ◆ Military
- ◆ Power Electronics
- ◆ Renewable Energy & Energy Conversion
- ◆ Transportation

## APPLICATIONS

- ◆ Electronics Cooling
- ◆ Enclosure Cooling
- ◆ Fuel Cells
- ◆ High-Temperature Heat Pipes
- ◆ LED
- ◆ Low-Temperature (Cryogenic)
- ◆ Mould Cooling
- ◆ Power Electronics Cooling
- ◆ Radar Electronics
- ◆ Radio Base Station Cooling
- ◆ Satellite Thermal Control
- ◆ Solar
- ◆ Thermal Storage



# THERMACORE

[www.thermacore-europe.com](http://www.thermacore-europe.com)

## Passive Two-Phase Devices



### Heat Pipe Assemblies

A wide variety of efficient thermal solutions is within reach thanks to Thermacore expertise in creating heat pipe assemblies, which fit in with any design configuration. Thermacore specialises in the custom design, development and manufacturing to solve any thermal management problem.



### Heat Spreaders

Heat spreaders move heat away from delicate components and reject it to ambient air or a circulating liquid coolant flow. These efficient and dependable thermal solutions are ideal for isothermalizing surfaces and for applications where low-maintenance, high-reliability operation is a must.



### Vapour Chambers

Compact, quiet-operating Thermo-Base™ vapour chambers from Thermacore provide three-dimensional heat spreading, rapid heat removal and improved system packaging, plus superior thermal performance compared with traditional heat sinks.



### Loop Heat Pipes

Passive loop heat pipes give you reliable, virtually maintenance-free heat removal over long distances in any configuration — regardless of gravity. And these thermal solutions are bendable, flexible and routable, for added design flexibility.



### Axially Grooved Heat Pipes

Need efficient thermal transfer of high heat loads over a sizable distance? Axially grooved heat pipes from Thermacore can move heat reliably over distances of 3 metres or more — at lower fabrication cost than heat pipes with conventional wicks.



### Isothermal Furnace Liners

Uniform isothermal environments can be created with Thermacore isothermal furnace liners (IFL), giving thermal engineers temperature control that surpasses any conventional technique. Isothermal furnace liners are easy to install and help conserve thermal energy, which can reduce costs dramatically.

## Cold Plate Technologies

[www.bupat.com.tr](http://www.bupat.com.tr)

### BUPAT e-bülten listesi :

- 01/12/2015 - Tasarım Mühendisleri için GÜÇ ELEKTRONİĞİ Çözümleri  
01/06/2015 - SLOAN Elektro-Optik Ürünler / AYDINLATMA Teknolojileri  
12/24/2014 - Yeni Yılınız Kutlu Olsun !  
12/22/2014 - Savunma Sanayii'nde PCB Kart, Kablo, Pano TANIMLAMA  
12/08/2014 - COBHAM MikroDalga Ürün ve Test Çözümleri / UZAY ve Askeri UYGULAMALAR  
09/18/2014 - BUPAT KISA Broşürler / 2014  
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08/03/2014 - CURTISS-WRIGHT Yeni Ürünler / Uçuş Test ve Aviyonik Uygulamalar  
06/29/2014 - SWaP Çözümleri ve Hediye ANKET / Elektronik TASARIM  
06/01/2014 - ANTEN Çözümleri

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## WEB SİTEMİZDEKİ ANKETLERİMİZİ DOLDURANLAR KAZANIYOR

### SWaP ANKETİ

1. Uzay-Havacılık Alanında Çözümlere ihtiyaç duyuyor musunuz ?

- EVET  
 HAYIR

2. Elektronik TASARIMLARINIZDA SWaP konusu ne kadar

- %100  
 %50 den fazla  
 %50 den az

3. Aşağıdaki ifadelerden hangilerinin doğruluğuna inanıyor

- Elektronik Tasarımı yapılan ürünlerin az yer kaplaması, hafif ve yüksek  
 SWaP ürünü seçiminde üretici firmanın referansları çok önemlidir.  
 Türkiye'de SWaP konusuna çok önem verilmektedir.  
 SWaP odaklı ürünler uzun vadede daha ekonomik çözümler sunmaktadır.  
 SWaP kriterlerini sağlayan ürünler elektronik tasarımlarda büyük kolaylık

4. SWaP odaklı üretim yapan aşağıdaki firmalardan hangile

- COBHAM (Antenna Systems)  
 EVANS

### ANTEN Çözümleri

1. Hangi Platformlar için ANTEN çözümlerine ihtiyaç duyuyorsunuz ?

- HAVA  
 KARA  
 DENİZ

2. Kullanmakta Olduğunuz ANTENLERin Yüzde Kaçı Askeri Standartlarda ?

- %100  
 %50 den fazla  
 %50 den az

3. Hangi frekans aralıklarında çözümlere ihtiyaç duyuyorsunuz ?

- 3 MHz den az  
 HF (3 - 30 MHz)  
 VHF/UHF (30 MHz - 3 GHz)  
 3 GHz den yüksek

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