

AA-MCS is a European Leader in Design Development and Manufacture of Active and Passive, RF & Microwave Components and Sub-Systems from DC to 50GHz.

- SSPAs to 500W CW and 10GHz
- · Combiners and Dividers
- Ultra Broadband Couplers.
- · PIN Diode 'Hot Switches'
- · Non-ITAR Product & Available from Stock.



Frequency Standards designed for Commercial, Hi-Rel and Military Applications.

- Rubidium Frequency Standard Oscillators.
- Synchronization Products combined with GPS Receivers.
- GPS Disciplined Frequency Standards.
- · Connectorised or Surface Mount Modules.



Miniature and Sub-Miniature RF Connectors for Defence, Avionics and Commercial Communications Applications to 40GHz.



Established 1930, a Leader in Design and Manufacture of Low Phase Noise Frequency Generation Products.

- · Crystal Products. Integrated Assemblies.
- Low Cost & Precision Oscillators (XO)
- OCXO, TCXO, VCXO and TCVCXO). Military and Space Heritage



produce lab-grade Vector Network Analyzers that provide high accuracy, wide dynamic range, a familiar UI and a broad variety of standard features.

- · High Performance Vector Network
- Analysers 9 & 20GHz Compact VNAs up to 7GHz
- Full Size Two and Four Port VNAs up to 8GHz
- Vector Reflectometers

- · Calibration & Accessories · Cost Effective Solutions



Cobham Antenna Systems incorporating Continental Microwave and Kevlin.

Continental Microwave

Space Applications.

- Spiral and Flat Plate Antennas Sub-Systems Waveguide Components
- Applicable for Hi-Rel. Defence and

Kevlin:

- · Rotary Joints.
- Rotating Systems. Slip Ring Assemblies to 40GHz.

Applicable for Defence, Air Traffic Control, Satcom, Space and Commercial Applications.



Communication Power Corporation (CPC) provides World Class, Pulsed and CW, High Power Amplifier Technology for Medical, Scientific, Industrial and Defence Applications including NMR, MRI, MRS, NQR and EPR.



Microwave Solutions, incorporating Merrimac and Signal Technology.

Crane Aerospace & Electronics Microwave Solutions designs and manufactures Critical Systems and Microwave Component

Applicable for the Space, Defence and Aerospace Markets.

- Integrated Modules to 60GHz.
- RF & Microwave Components.

Applicable for Space, Defence, Aerospace and Commercial

Signal Technology.

- Frequency Convertors and Integrated Microwave Assemblies. Frequency Generators and Sources.

Specialise in the Design and Manufacture of Commercial, Military and Space grade RF, Microwave and Millimeter Wave Components and Integrated Microwave Assemblies:

- Filter LNAs.
- Frequency Converters.
- Space qualified technology.



- RF Coaxial Relays to 40GHz. Switch Matrices

Applicable for Commercial, Defence and Hi-Rel Space Applications.



Applicable for Commercial and Defence Applications ranging fron 10kHz to 40GHz including ELINT COMINT, RWR, DF and SATCOM

- · RF & Microwave Frequency Sources
- Synthesizers

- Multi-Mix Multilayer Technology.
- Sub-Systems.

Applications.

- High Power Isolators and Circulators.
- Applicable for Space, Defence, Aerospace and Commercial Applications.

- · Combiners, Splitters and Hybrids.
- · Filters.
- · Integrated Microwave Assemblies.



Space Products

- · Electro-Mechanical Microwave Switches
- Low PIM Switches



- · Receivers.
- Sub-Systems.

IF, RF & Microwave Components and Sub-Systems for Hi-Rel. Space and Defence Applications to 40GHz.

- MMIC Development. · PIN Diode Control Devices.
- · Frequency Sources & Synthesizers.



Incorporating Eurofarad, Sic Safco, Firadec, Microspire, Dearborn **Electronics, Temex Ceramics,** Astema and Vertura.



Formerly Eurofarad, Exxelia Technologies are Specialists in Multi-Layer Ceramic and Plastic Film Capacitors.

- FMI/RFI Energy and HEMP Filters Optical Encoders.
- Precision Potentiometers
- RVDTs
- Slip Rings. Sub-Assemblies

Applicable for Defence, Aerospace and Space Applications.



- Aluminium Electrolytic Capacitors.
- Capacitor Banks.

Applicable for Industrial, Railway Hi-Rel, Defence, Aerospace and Automotive.



Tantalum (Wet and Solid) Capacitors for the Professional Electronics, Space and Aerospace Industries.



- High Precision Inductors. Motor Stators.
- Transformers. Windings.
- Applicable for High Performance Applications in Professional, Defence Aerospace and Space Markets.



- Antennas and Switches. Radar Transponders.
- Test Equipment.

Providing complete Radar Tracking Solutions for:

- · Manned Aircraft.
- Missile Systems • Surface Vessel Applications up to 10GHz.



holzworth √V instrumentation

Modules and Test Systems for Hi-Rel

- and Defence Applications.
- · Phase Noise Test Systems · Single and Multichannel RF
- Últra Low Phase Noise.



RF & Microwave Solutions

- Hi-Rel Test & Measurement
- · Lightning Protectors. Microwave Modules.
- Resistive Components. RF & Microwave Coaxial Connectors Cables and Cable Assemblies for all Market Sectors.

Fibre Optic Solutions

- Fibre Optic Connectors
- · Harsh Environments and Test & Measurement. Systems for Private and Public

Communications Networks **Low Frequency Solutions**

 Low Frequency Wires and Cables for Industrial and Hazardous Applications RADOX™ High Grade Insulating and Jacketing Materials Provide Superior Quality Cable Solutions.



- RF & Microwave Connectors and
- Cable Assemblies for Commercial, Defence and Space Applications to RF & Microwave Cable.
- High Density RF Connector Solutions including SMP, SMPM and SMPM-T to 65GHz Microbend® .047 and Mini 141®. Minibend® .086 Fully Flexible "Bend
- to the End". · RF Cable Assemblies usually available from stock.



Test & Support Systems (TSS) provides Defence Related Electronic Warfare Products and Services including Avionics Test Equipment and Simulators for EW and Avionics System Testing.



inTEST Thermal Solutions

ncorporating Temptronic Thermonics and Sigma Systems inTEST Thermal Solutions provides

- Thermal Products for: Environmental Test.
- Process Chillers.
- Semiconductor, IC and Module Test Applications.



ATS Series ThermoStreams providing Accurate, Controlled Temperatures at the Test Site from -95degC to +300degC.



Precision Temperature Forcing Systems (PTFS) have been replaced by the new ATS Series ThermoStream Systems.



Temperature Controllable Convection Chambers and Hot/Cold Plates.



Control Components, Modules and

- Attenuators. Power Amplifiers to 40GHz.
- Frequency Sources and Synthesizers Switches. Integrated Microwave Assemblies

Applicable for use in Hi-Rel and

Defence Applications.



Microwave Devices supply mmW Attenuators Circulators & Isolators.

High Power Loads.

up to 110GHz

110GHz.

Switches.

Amplifiers.

Millimetre Wave Horn Antennas

Rotary Joints from 0.64GHz to

Parabolic and Cassegrain Antennas



millitech ' Millimetre and Sub-Millimetre Wave

Waveguide Adaptors.

· Antenna and Quasioptical Products.

- Mixers and Detectors.
- · Multipliers and Control Components Filters and Ferrite Products.
- Passive Waveguide Components. Converters and Test Modules.



Modco, Inc. Designs and Manufactures High Quality Voltage Controlled Oscillators for Commercial, Industrial Medical, and Military Applications.

 Surface Mount, TO8, Surface Mount. · Custom and off the shelf solutions. Applicable for Wireless

Frequencies from 10MHz to 12GHz



· RF. Microwave and Millimetre Wave Silicon Transistor

• MMICs

MICROWAVE Microwave Isolators and Circulators for Defence. Wireless and Telecommunication Applications from

380MHz to 26GHz

RF Matrices.



Systems for Signal Distribution IF. RF & Microwave Switching Systems Multi-Coupler



ThinkRF Design and Manufacture PC Driven High Performance Signal / Spectrum Analyser with a highly configurable Software Defined Radio receiver coupled with real-time digitisation and digital signal processing.

- 8, 18 & 27GHz options.
- Up to 160MHz Real Time Bandwidth Probability of Intercept (POI) as short as 1.02 µs.
- Spurious Free Dynamic Range (SFDR) up to 100 dBc.
- Optional Support for External Local Oscillator.

Optional Pre Amp and Preselect

Filtering. · Compact housing with rack mount option.



Broadband Conical Inductors

RF & Microwave Air Coil and Spiral

Defence and Commercial Applications.

Inductors.

Fixed and Tunable Inductors. High Quality, Microelectronic Coil

Chip Inductors. Applicable for Space, Aerospace,



- High Performance Amplifiers/ Sub-Systems.
- Tower Mount Amplifiers. Unmanned Aerial Vehicle (UAV) or DRONE Sub-Systems from 10MHz to 20GHz.



 0° Combiners/Dividers. 90° Hybrid Couplers.

180° Hybrid Combiners and

Absorptive Filters from DC to 6GHz. High Power, Multi-Octave Directional Couplers.

Industrial and Test & Measurement. Mismatch Tolerant® Designs Operate at Rated Power into Severe Mismatches. Power Capability from 5W CW to 100kW CW.

Markets include Defence, Commercial,



Design and Manufacture of Low Cos Antenna Systems.

- Antenna Control and Tracking
- Earth Station Antenna systems from 1.2 to 20m

· Low Cost Fly Away Antenna Systems

- ISO 9001-2000 Certified.
- including Motorisation. SNG Antenna Systems including



Bandwidth.

Motorisation.

UK based Satellite Operator providing Ka Services in Europe, Africa and the Middle East.

- · Excellent footprint coverage in the UK and Ireland. Fixed Satellite Broadband Hardware Applicable for Commercial and
- · Focus on Quality and Flexibility. Highly Resilient Infrastructure and Support Occasional Use and Dedicated

and Contended Bandwidth Tariffs.



Design and Supply Military and Commercial Grade Antenna Systems from 0.6 to 4.6m.

· Fly Away Antennas

· Manual or Motorised Platforms with Controller. SNG Antennas



1 to 50W with Low Power

Fixed Motorised Antennas.

Manual or Motorised Platforms with

Fly Away Antennas.

Antenna Controller.

Elcom

Defence Applications ranging from

10kHz to 40GHz including ELINT,

RF & Microwave Frequency Sources

Redundancy Switch and IP Interface

Systems Design and Consultancy

System Upgrades and Maintenance

System Installation and

Commissioning

Training Support

Support.

COMINT RWR DF and SATCOM

SNG Antennas.

Receivers

Sub-Systems.

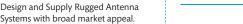
C & Ku Band Block Up Converters

Consumption

INTEGRAL SYSTEMS EUROPE Design and Supply Block Up Systems Design, Hardware Supply and Converters and Accessories for the Project Support for RF Monitoring Satcom market.

- SAT DSA RF Monitoring with Advanced Features such as Carrier
 - Under Carrier Interference Detection. Automatic and Fully User
 - Configured Monitoring Plans. Fast Measurement Speed. Multiple User Access.

TDMA Analysis



Market Leader in Satcom Technologies for a Wide Range of Applications

Modems

-Newtec-

 Fixed Satellite Broadband Hardware (Low cost Antenna System with Modem).

Across Market Sectors.

Modulators.

Demodulators.

OEM Solutions.

 Frequency Converters · IP Accelerators and Performance



· Standard and Custom solutions

High Quality Product Range from DC Ka Band LNBs. Ka Band Solid State Power Amplifier



Cost Effective Solutions for Carrier Monitoring.

- 4 or 8 L Band Inputs. Automatic and Remote Monitoring
- Canability Hand Held and OEM Card Options.



DVB-CID Extractor for RF Carrier ID

Simultaneous / Multiple User Access

A Leading Technology Innovator offering products in both the Terrestrial and Satellite markets.

OEM Modulators and

Demodulators.

- Demodulators. DVB S, S2 and S2X Modulators.
- Monitoring.
- Enhancing Proxy. · IP Hub Platforms including 'Dialog



- novotronik to Ka Band
 - up to 200W. Phase Shifters, Oscillators and other

Satcom on the Move (SOTM)

Antenna Systems.



Systems Design, Implementation and Commissioning

IP Connectivity Solutions over Satellite

available.

SATCOM SERVICES:

Through-life Support & Maintenance during Warranty and beyond

Extended Warranties and RF Training



rom UHF/VHF Frequency Bands up Block Up Converters in X, Ku and Ka



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