

# HI-REL SOLUTIONS



High Reliability Solutions  
Value Added Services  
Custom Solutions  
Military & Hi-Rel Sourcing

## APPLICATION AREAS

- RF switching and attenuation
- Communication data links
- Conversion / Modulation
- Surveillance / Tracking
- Telemetry / Guidance
- Receiver Protection
- Imaging / Profiling
- Meteorological
- Broadcast
- Scientific
- Military
- Tuning
- GPS
- Ground Penetrating Radar
- Scatterometers
- Turret Control
- Personal Radio
- Avionics
- Firing Modules (FM)
- Ignition Safety Devices (ISD)





## HIGH RELIABILITY SOLUTIONS

Quality and reliability are the key cornerstones of our solutions and services for Hi-Rel applications. We have a dedicated Quality and Compliance team who maintain the standards and ensure we achieve the highest possible levels of accreditation.

- JOSCAR Registered
- Cyber Essentials Certified
- ISO9001:2008 Accredited
- AS9120 Certified Quality Management System
- AS9100 Certified Value Added Services
- ISO14001 (Environmental Management Standard)
- Members of IIOM and ECSN

## VALUE ADDED SERVICES

Solsta offers a number of value added services including device programming, firmware version control, tape and reeling, mini reeling and bake & seal.

We offer a unique packaging material for long term storage, with up to 15 years protection against corrosion, approved to standards such as DEF STAN 81-41, NASA SP-R-0022A and MIL 81705D.

All of the services are carried out in our secure, bespoke, ESD facility in line with our AS9100 certification.



## CUSTOM OPTO SENSOR & DISPLAY SOLUTIONS

Solsta's design & manufacturing division offers a complete end-to-end solution for optoelectronics, sensing and display technologies. Our services cover thermal and optical sensing, illumination and beam manipulation, analogue driver and detection circuitry, optoelectronic and optomechanical assemblies, display technologies including full customisation of display panel assemblies, and embedded control.

The Solsta team can help you reach a successful, well-engineered and profitable manufactured solution. We've provided program management and production to the highest quality standards for long-standing clients in the defence sector.

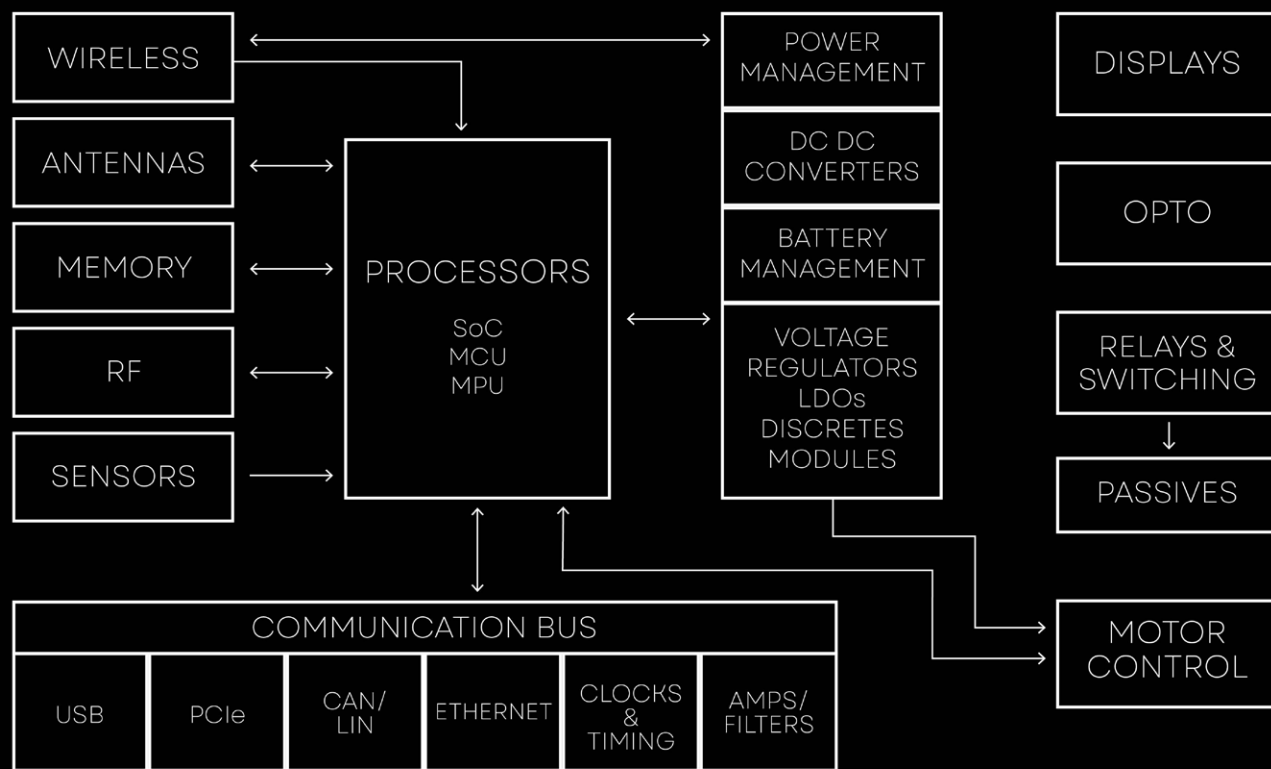
## MILITARY & HI-REL SOURCING

Military and Hi-Rel SOS is a specialist business unit of Solsta, offering a comprehensive sourcing service for obsolete and hard-to-find electronic components for Military and Hi-Rel applications. Utilising the latest anti-counterfeit detection methods, and with over 25 years of industry knowledge, Solsta SOS is the assured source for all your obsolescence requirements. Services available:

- Electronic Component Sourcing from approved vendors
- Anti-Counterfeit inspection in accordance to AS6081 or relevant standard
- Electrical Re-Testing / Re-Qualification to original manufacturer specification
- AS9100C accredited test houses in accordance with AS6081/AS5553
- Component Up-Screening to Industrial, MI, TX and Custom
- Long Term Storage Facility
- Corrosion-Free Long Term Storage Specialist Packaging
- Specialist Kitting







RF

GaAs RF Diodes, SAW filters, Microwave Filters, Diodes, Power Amps, Power Transistors, GaN on SiC HEMT Transistors

OPTOELECTRONICS

Optocouplers, Switches, Diodes, Attenuators, Amplifiers, Front-End modules, YAG-enhanced photodiodes and hybrid receivers, quadrant detectors, optical components and radiation-hard space glass for optical solar reflectors and coverglasses

ANTENNAS

I/O & COMMS BUS

USB, PCIe, CAN/LIN, Ethernet, Amps, Filters, Mil-Std1553

TIMING & ATOMIC CLOCKS

Quartz Oscillators, Crystals, Cesium clocks, CSAC

HMI & DISPLAYS

Extensive product portfolio of rugged, MIL-STD qualified flat panel displays. Field-proven military LCD monitor designs can incorporate keypads, switches, bezels and feature lightweight enclosures that can stand up to demanding environments

PROCESSORS

- Power-Efficient with the highest reliability and best-in-class security. Industrial ( $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ ), Automotive ( $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ ) and Military ( $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ ) temperature ranges
- Rugged military temperature packages
- Radiation-hardened and radiation-tolerant solutions that include high-performance CPUs, MPUs

MEMORY

SRAM, NVM Memories

POWER MANAGEMENT

- Isolated DC-DC converters
- Non-isolated, synchronous, buck regulated point of load DC-DC converters
- MIL-PRF-38534 Class H
- MIL-STD-461, MIL-STD-704A, DO-160, MIL-STD-883

POWER SOLUTIONS

Battery Management, Supervisors, LDO's, Discrettes, Modules, SiC. Voltage Regulators, Mil-Pref-19500, Protection, MOSFETs

WIRELESS

Wi-Fi, Bluetooth, LoRa, Zigbee, MIWI





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