



Fly with Precision: **Advanced Electronic Components for UAVs**

electronics ■ mechanics ■ interconnect

SACA
— europe sp. z o.o. —

■ sacaeurope.com

OMNETICS
CONNECTOR CORPORATION

Omnetics

Miniature Micro D -
Nano D - Power & Signal
Hybrids Connectors

xsens

Xsens

MEMS Based IMUs

SAFRAN

Safran

**Sensing Technologies
Norway AS**

MEMS Based Tactical
Grade Gyros and IMUs

SECO

SECO

Edge Computing - IoT - AI -
COM HPC - SBC Modules

SynQor

SynQor

Ruggedized and HI REL DC/DC
Power Converters - AC/DC Converters -
DC & AC EMI Filters

**ADVANCED
MOTION CONTROLS**

Advanced Motion Controls

Servo Drives - Controls

LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS COMPANY

Lin Engineering

Linear Actuator -
Stepper Motor

IEH

IEH

Hyperboloid Contacts -
Hyperboloid PCB Connectors

**DIAMOND
SYSTEMS**

Diamond Systems

NVIDIA Solutions - SBC Modules -
Analog I/O - Digital I/O - Serial Comms -
Ethernet Switches - Accessories

septentrio

Septentrio

GNSS Antennas - GNSS Receivers -
GNSS/INS Sensors

EMI
SOLUTIONS INC.

EMI Solutions

EMI Flex Filter Inserts -
EMI Filtered Connectors

Konnect RF

Konnect RF

Connectors - Custom Cable Assemblies -
DC Blocks - RF Switches

■ electronics ■ mechanics ■ interconnect

SYNQOR



SynQor provides reliable power solutions with high efficiency, compact size, and rugged design, featuring a wide input range to meet the demanding power requirements of UAV systems.

Usage

Reliable power supply for UAV systems.

Unique Features

High efficiency, high power density, compact size, low weight, rugged design, wide input range.



XSENS



Xsens/Movella's sensors excel in advanced motion tracking and data collection with superior motion sensing capabilities, compact form factor, and reliable performance tailored for UAVs.

Usage

Advanced motion tracking and data collection for UAVs.

Unique Features

Superior motion sensing, effective fusion engine algorithm, compact form factor, reliable performance.



SAFRAN SENSING TECHNOLOGIES NORWAY AS



Focused on high precision tactical grade MEMS Based gyroscopes and IMUs.

Usage

With exceptional durability, low Size-Weight-Power (SWaP) profile, and long-term performance, they provide reliable data for critical missions.

Unique Features

ITAR Free, Hermetic package, ARM microcontroller provides flexibility in configuration, like choice of output unit, sampling frequency, LP filter -3dB frequency and RS422 bit-rate.



SEPTENTRIO



Septentrio excels in providing high-precision GNSS (Global Navigation Satellite System) technology for UAVs. Their sensors offer centimeter-level accuracy, robustness against interference, and excellent reliability, making them ideal for precise navigation and positioning tasks in varied operational conditions.

Usage

Septentrio GNSS modules are used in UAVs for accurate positioning and navigation, crucial for ensuring precise path following and localization within indoors and outdoors.

Unique Features

High Accuracy: Septentrio modules provide centimeter-level positioning accuracy, essential for UAVs operating in dynamic and congested environments. **Multi-Constellation Support:** They support multiple GNSS constellations (GPS, GLONASS, Galileo, BeiDou) for enhanced reliability and availability of positioning signals. **Robustness:** Designed to operate reliably in challenging environments such as urban canyons, where satellite signals may be obstructed or reflected.



SECO



SECO's embedded computers are known for their high customization options and scalable performance, offering low power consumption which is crucial for efficient UAV control and data processing.

Usage

Embedded computing for UAV control and data processing.

Unique Features

High customization options, scalable performance, low power consumption.



DIAMOND SYSTEMS



Diamond Systems' embedded computers feature a rugged design and wide temperature range capabilities, delivering high processing power essential for critical UAV operations.

Usage

Critical computing functions for UAV operations.

Unique Features

Rugged design, wide temperature range, high processing power.



OMNETICS



Omnetics specializes in miniature connectors that are lightweight, highly durable, and provide secure connections, perfect for UAV applications where space and weight are critical.

Usage

Miniature connectors for UAV applications.

Unique Features

Lightweight, high durability, secure connection.



EMI SOLUTIONS



EMI Solutions offers customizable electromagnetic interference shielding solutions that are high-performing and made from lightweight materials, protecting UAV electronics from potential EMI issues.

Usage

Electromagnetic interference shielding for UAV electronics.

Unique Features

Customizable solutions, high performance, lightweight materials.



IEH



IEH connectors are designed for high-reliability applications, featuring high mating cycles, robust design, and low insertion force, ensuring secure connections in UAV systems.

Usage

High-reliability connectors for UAV systems.

Unique Features

High mating cycles, robust design, low insertion force.



KONNECT RF



Specializes in high-frequency connectors that offer excellent electrical performance and durability, ensuring secure and reliable connections.

Usage

Ensures secure and reliable connections in communication systems.

Unique Features

Specializes in high-frequency connectors with excellent electrical performance and durability.



ADVANCED MOTION CONTROLS



Precise motor control solutions with high efficiency and a compact design, catering to a wide voltage range, ideal for UAV applications.

Usage

High-performance motor control for precise movements. High power density mini-drives that can be mounted directly behind the motion unit (figure-1).

Unique Features

Customizable configurations, robust design, and high efficiency.



figure-1



LIN ENGINEERING



Hybrid stepper motors, BLDC motors, gearboxes, frameless motors, linear actuators, micro DC motors, drive wheels for UAV applications.

Usage

Commonly used in aerospace, robotics, medical devices, automation systems, tracking systems, satellites and other precision industrial equipment.

Unique Features

Lin Engineering products are designed for high performance, low power consumption, low noise, low vibration, high accuracy & long life.



REI



Customized and off-the-shelf solutions to meet the needs of system integrators around the world through its highly reliable and durable critical components.

Usage

REI's products are primarily used in aerospace systems, robotics, and unmanned aerial vehicles (UAVs), where high reliability and precision are critical

Unique Features

Multi-sector specialization, precision and reliability, in-house design and assembly capabilities from R&D to production and inspection.



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