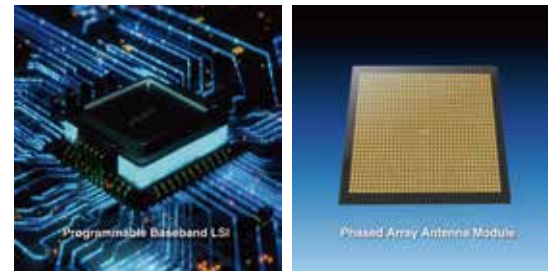


**ABIT CORPORATION**  
**Universal Advanced Wireless System**



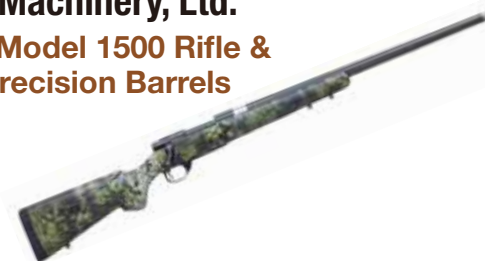
Based on the wireless technology development capabilities to mobile carriers, research institutions, and other entities over many years, we have developed a baseband LSI that serves as a programmable SDR (Software Defined Radio) and phased array antennas. These technologies will offer a universal advanced wireless system capable of developing radio systems for defense equipment.

**Aster Co., Ltd.**  
**Drive systems for air mobility**



This is a high-power density motor that uses our unique coil technology (patented). When compared to conventional motors of the same size, this motor can produce twice the output. When integrated with a dedicated drive controller, it enables the creation of a high-power, high-efficiency drive system.

**Howa Machinery, Ltd.**  
**Howa Model 1500 Rifle & High Precision Barrels**



Highly rated by hunters around the world, this sporting rifle is the result of our high-precision barrel manufacturing technology. We are also engaged in the production of defense equipment, utilizing the barrel manufacturing technology of sporting rifles.

**Hytec Inter Co.,Ltd.**  
**LLC-4000**  
**LLC-4000ME**



A 4K low-latency and narrow-bandwidth video encoder/decoder for tactical operations including reconnaissance, situational awareness, and more. It enables reliable real-time video streaming over narrow-bandwidth satellite links and tactical radios in the field. This system has been used by the Ground Self-Defense Force's Amphibious Rapid Deployment Brigade, Airborne Brigade and communications units in various Divisions/Brigades.

**Nippon Control System Corporation**  
**DRA Series**



Our DRA Series system is an industry-leading data recorder that enables ultra-high-speed broadband data recording capabilities. With customizable input interfaces and scalable storage configurations, we offer the best units to meet your diverse data collection, recording, and storage requirements.

**Japan Radio Co., Ltd.**  
**JRC Tactical LTE Box**



Japan Radio Co., Ltd. is the leading company of communications and information technology fields. We'll introduce its fully integrated, self-contained Tactical LTE Box™ solution and demonstrate mission critical service application JRC-MCPTT with features as Push to Talk (PTT) communications and Video Streaming between LTE devices for instant field deployment.

**Technical Cooperations**







## JX Metals Corporation

### Large-sized YAG Ceramics for High-Power Laser Applications



JX Metals' polycrystalline YAG ceramics offer several advantages compared to single-crystal YAG. Firstly, they allow for higher mass productivity. Secondly, they provide a homogeneous dopant concentration. Lastly, they enable the production of large-size mediums, up to 6 inches. As a medium for high-power lasers, it is expected to find applications in defense and security fields, particularly for drone hard kill systems and sensing applications.

## Mach Corporation Co.Ltd.

### World's Strongest "Radiation Tolerant CMOS Sensor" manufactured by Mach Corp.



Mach Corp. has successfully developed the World's Strongest "Radiation Tolerant CMOS Sensor" by cooperative research with JAXA. It has the ability to withstand "5MGy" and is characterized by;

- High performance
- Lightweight and Compact
- Low-power-consumption
- Wide applicability and utility

## Metro Weather Co., Ltd.

### Wind Guardian-100

Changes in wind direction and wind speed are measured using infrared lasers.

An infrared laser is utilized to receive scattered light from particles and observe the mutation of the signal frequency caused by the Doppler effect. This is used to measure the relative speed and direction of movement.



## MITSUFUJI Corporation



### Electromagnetic Wave Shielding Material

EMI shielding material using silver-metalized fibers offers flame-retardant, lightweight, flexible, mobile, durable, and radar-reflection features. It is designed to protect aircrafts and military equipment from electromagnetic threats and attacks.

### hamon band2 / MITSUFUJI 03

The wristband is designed to detect heat stroke risks, while the smartwatch is designed to visualize health conditions. Both devices are equipped with algorithms to enhance their functionality.

## Ookuma Diamond Device Co., Ltd.

### Amplifier circuit



The world's first diamond semiconductor amplifier circuit has successfully demonstrated reliable operation under high temperature, specifically for a week at 300°C. This achievement marks a significant milestone towards the practical application of diamond semiconductor devices.

## RICOS Co. Ltd

### AI x CAE Solution



By using AI, we have developed an AI-CAE tool that accelerates traditional computing speeds by 100 times. This tool is capable of performing fluid and thermofluid calculations. Additionally, we have created an automatic shape generation and optimization tool that can automatically modify the shape of existing products and calculate their performance. This tool aims to search for higher performance and lower cost products automatically.

## SKY Perfect JSAT Corporation

### Delivering Reliable Satellite Solutions



SKY Perfect JSAT operates 17 GEO satellites across the Asia-Pacific, North America, and Indian Ocean regions. We provide satellite capacity for government use and provide space data intelligence by analyzing Earth observation satellite imagery. Additionally, we are actively involved in the development of the LEO data business with small SAR satellites.

## Toshiba Infrastructure Systems & Solutions Corporation



### C-UAS Solutions

A comprehensive system that detects, tracks, identifies, and mitigates threats from suspicious drones. The command and control software integrates the sensors and the autonomous hunting drone.

### TPS-8ETEX

TPS-8ETEX is compact and light weight AESA 3D radar that uses GaN amplifiers, with long range detection, high mobility and easy deployment.



## VFR Inc.

### eVTOL for offshore surveillance applications



We specialize the EMS services for robotics, with the capability to swiftly establish a mass production system. Our services extend to providing mass production support to global companies and assisting in their entry into the Japanese market. Currently, we offer support to multiple global companies with a range of products, including eVTOL, drones, AGVs, and more.

