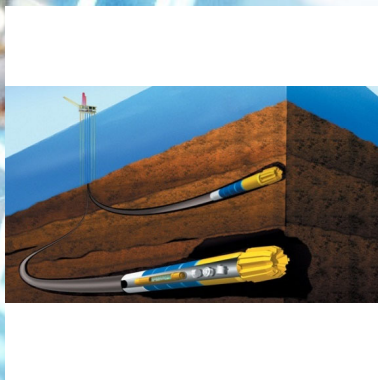
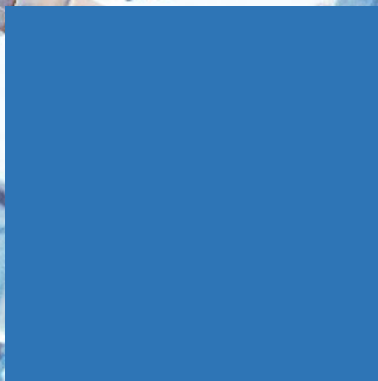
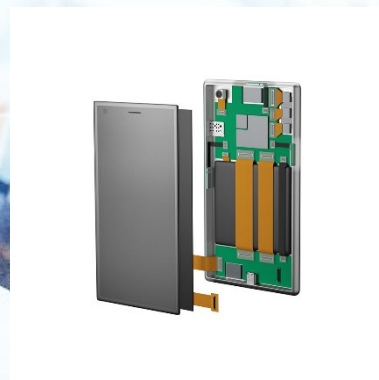
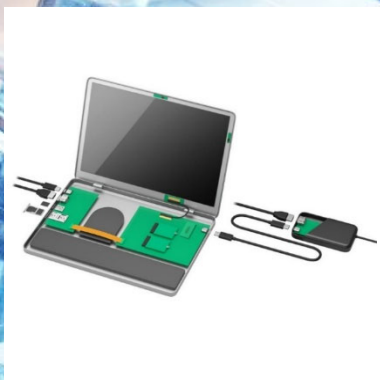
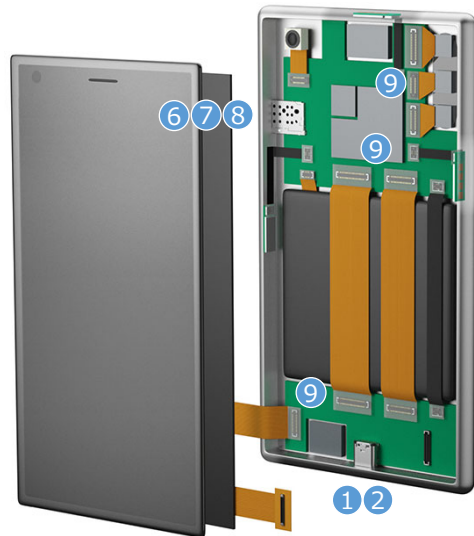


# Applications Guide



# Small Devices / FPD TV

## Smartphone



## Smart Watch



### – I/O –

USB Type-C® Standard 1



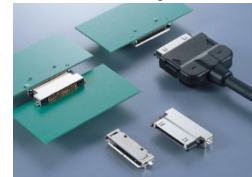
AOC (Active Optical Cable) 2



HDMI™ Standard 3



I/O Docking 4

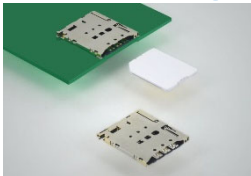


Smart textiles adaptable 5

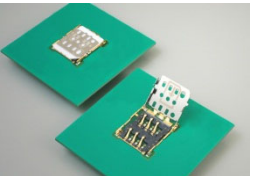


### – Card –

microSIM Card 6



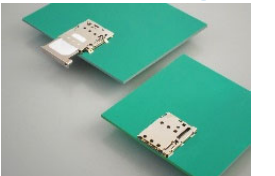
microSD™ Card 7



microSD™ Card 7



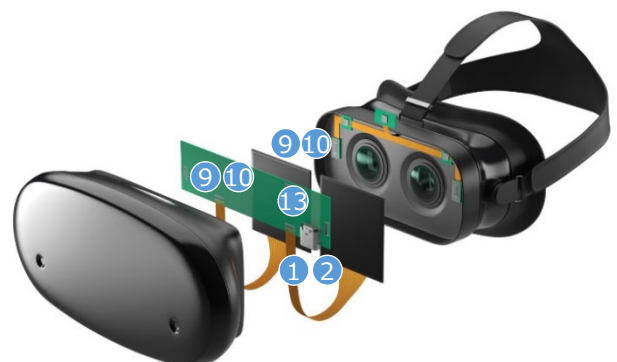
nanoSIM Card 8



## Wireless Earphones



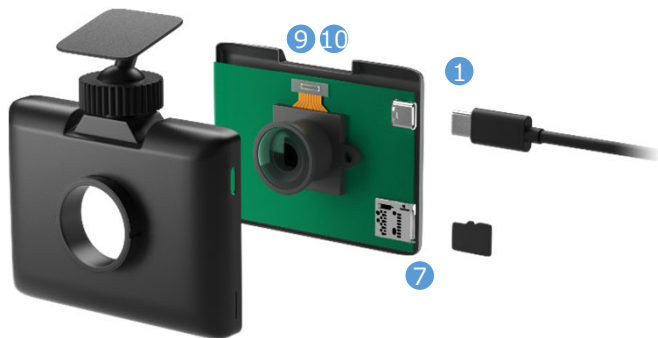
## Head Mounted Display



Connector

# Small Devices / FPD TV

## Driving Recorder

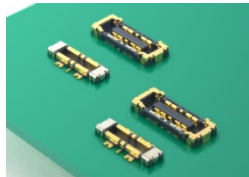
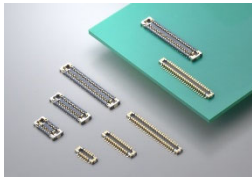


## Smart Clothing

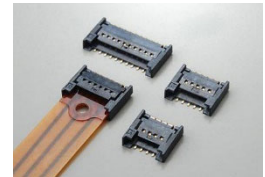
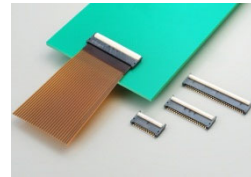


### – Internal –

#### Board to Board 9



#### Board to FPC 10



#### I/O for LCD 11



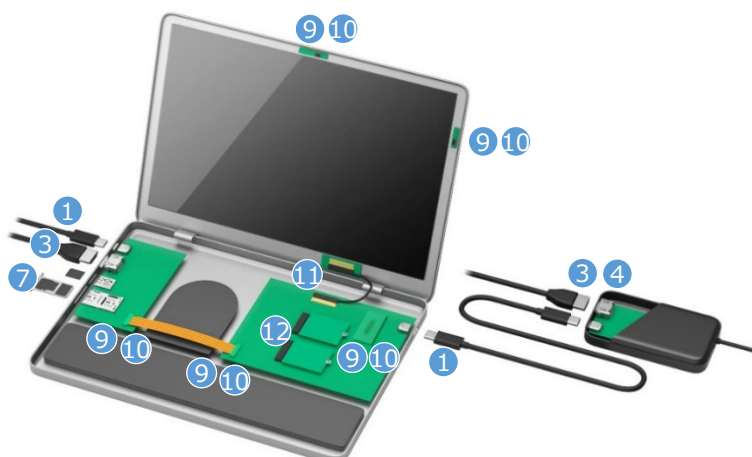
#### Module Socket 12



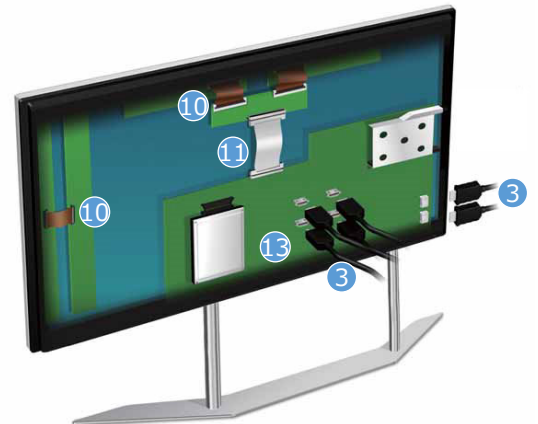
#### Antenna for Wi-Fi 13



## Notebook PC



## FPD TV



# Automotive

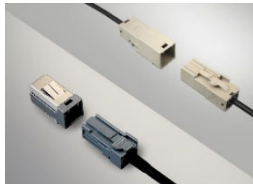
## ADAS

### - Camera -

 Automotive Digital Camera




 Automotive Digital Camera



 In-vehicle for ICT Devices



 Automotive FAKRA Standard Compatible

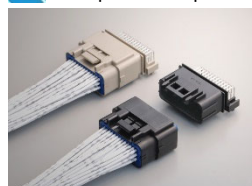


 Automotive HSD Compatible



### - Powertrain -


 High Pin Count, Compact Waterproof



 High Pin Count Waterproof




### - Active Sensor -

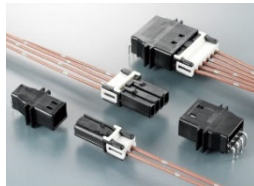
 Compatible with 0.35sq Wire



 Compact Waterproof




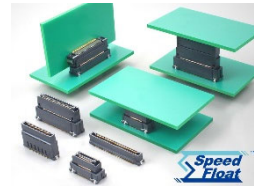
 Low Pin Counts. Waterproof




 Waterproof Board to Cable 040 Contact

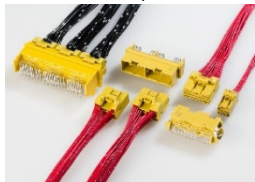


 High-speed Floating Board to board



### - Safety -

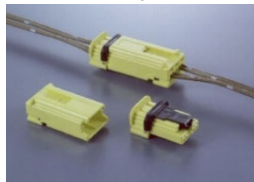
 0.64 (025) Non-waterproof SRS



 In-line Waterproof For Airbags




 In-line Non-Waterproof For Airbags



 High Pin Count For Airbags



 Self-rejecting Squib



## ADAS

## Motion Measurement / Operation Control

### - Inertial Measurement Unit -

 High Performance MEMS- IMU




## Motion Measurement / Operation Control

# Automotive

## Connected Car


### - Infotainment User Interface -

 Automotive HDMI™




 USB Type-C® Standard



 USB Type-A® Charging for Automotive



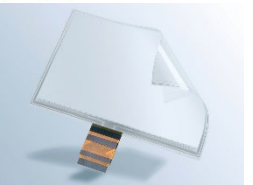
Connected Car

 Capacitive Touch Panel



Glass Type

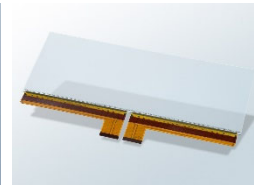
 FLEX CONVERT



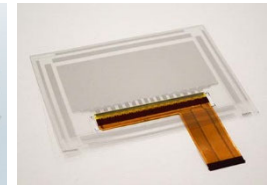
Film Type



Fully Transparent Type




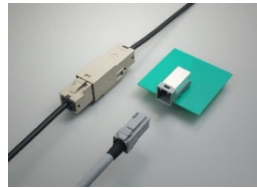
Frameless Type




Multifunction Sensing Type


### - In-Vehicle Infotainment -

 Automotive USB2.0 Standard Compatible




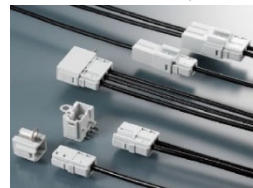
 Automotive USB 3.0 High Speed




 Automotive LVDS/GVIF\* Compatible

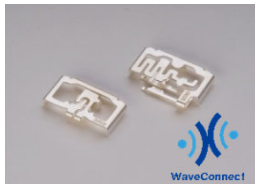


 Small Coaxial (50Ω / 75Ω)



### - Antenna -

 Antenna for Automotive



Antenna




E-mobility

## E-mobility


### - Battery System -

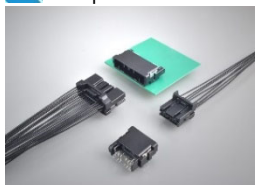
 High Voltage for EV/PHEV




 High-density Non-waterproof




 SMT, Compact, Low-profile



 Using Low Flammability Material UL94V-0 for EV/PHEV



 Antenna for Automotive



# Industrial & Infrastructure Equipment

## Industrial Robots



Circular I/O 1



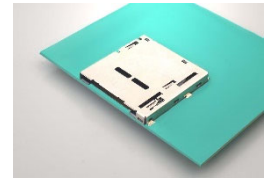
Small Circular I/O 2



Rectangular I/O 3



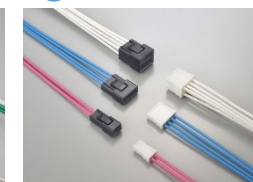
SD Card 4



Small Servo Motor Connectors (Waterproof) 5



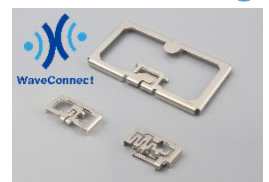
Waterproof Cable to Cable 6



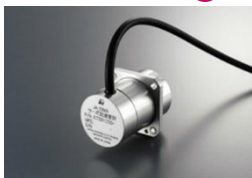
Fiber Optic Connector-Type07 7



Antenna for Wireless Communication 8



Accelerometer 1



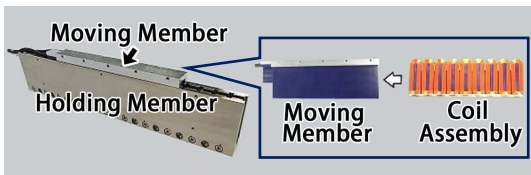
Optical Filter / Laser Mirror 3



Teaching Pendant 1



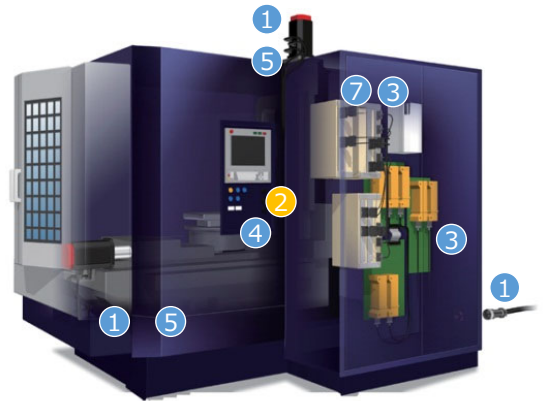
Linear Motor 2



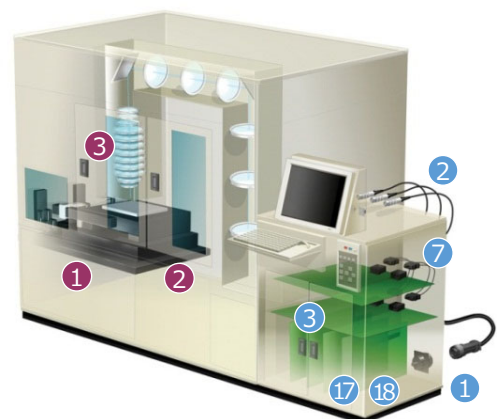
Operation Panel 2



## Numerical Control Machines



## Semiconductor Production Equipment



# Industrial & Infrastructure Equipment

## Network

## Medical Equipment



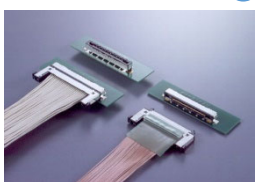
Waterproof I/O Connectors for Outdoor Use 9



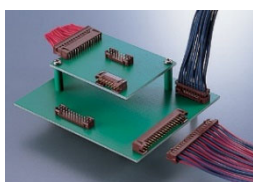
Outdoor Environmentally Resistant Circular 10



I/O for LCD 11



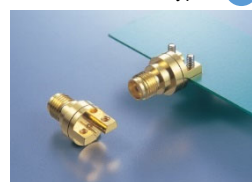
Board to Cable 12



Fiber Optic Connectors-Type SC 13



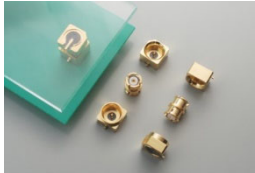
SMA Standard Coaxial, End Launch Type 14



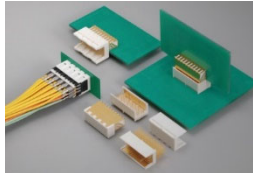
SMB Standard Compliant Coaxial 15



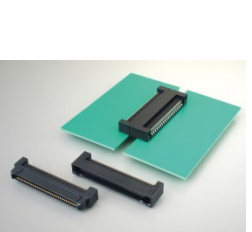
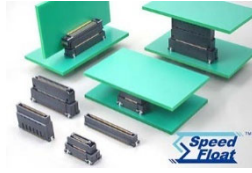
Board to Board Floating Coaxial 16



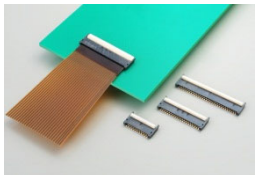
Backplane 17



Board to Board 18



Board to FPC 19



AOC (Active Optical Cable) 20

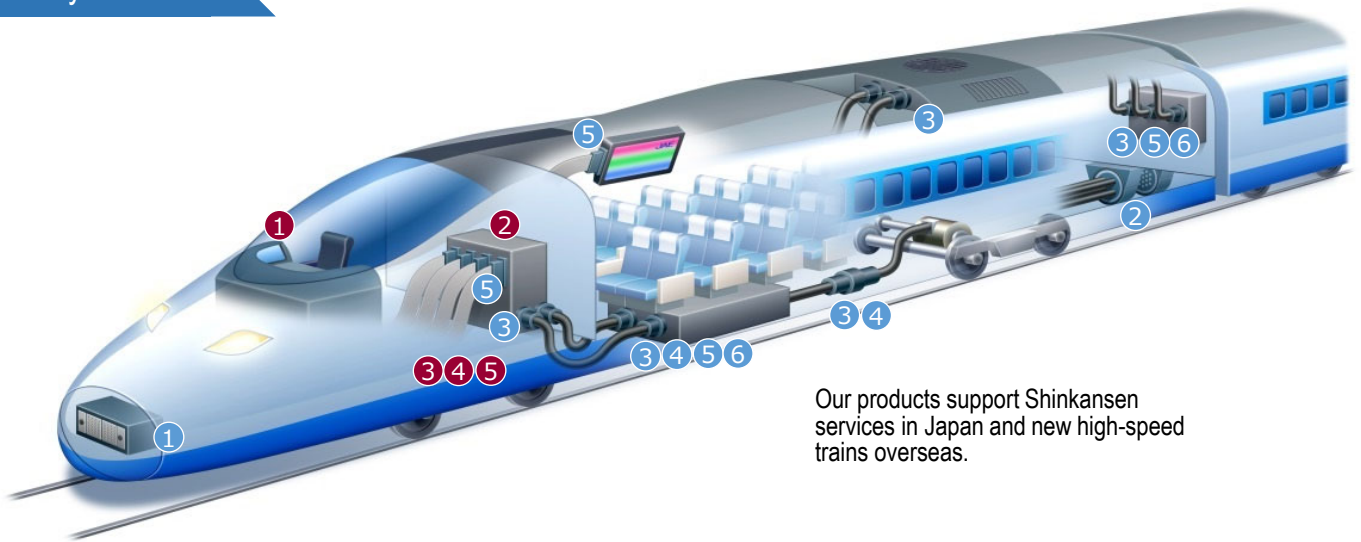


Panel Unit for Diagnostic Ultrasound System 3

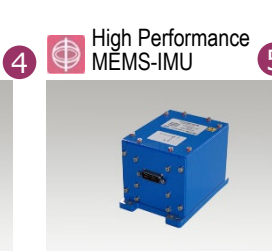
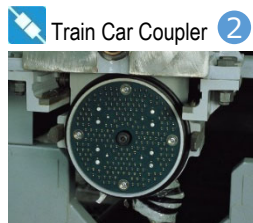


# Industrial & Infrastructure Equipment

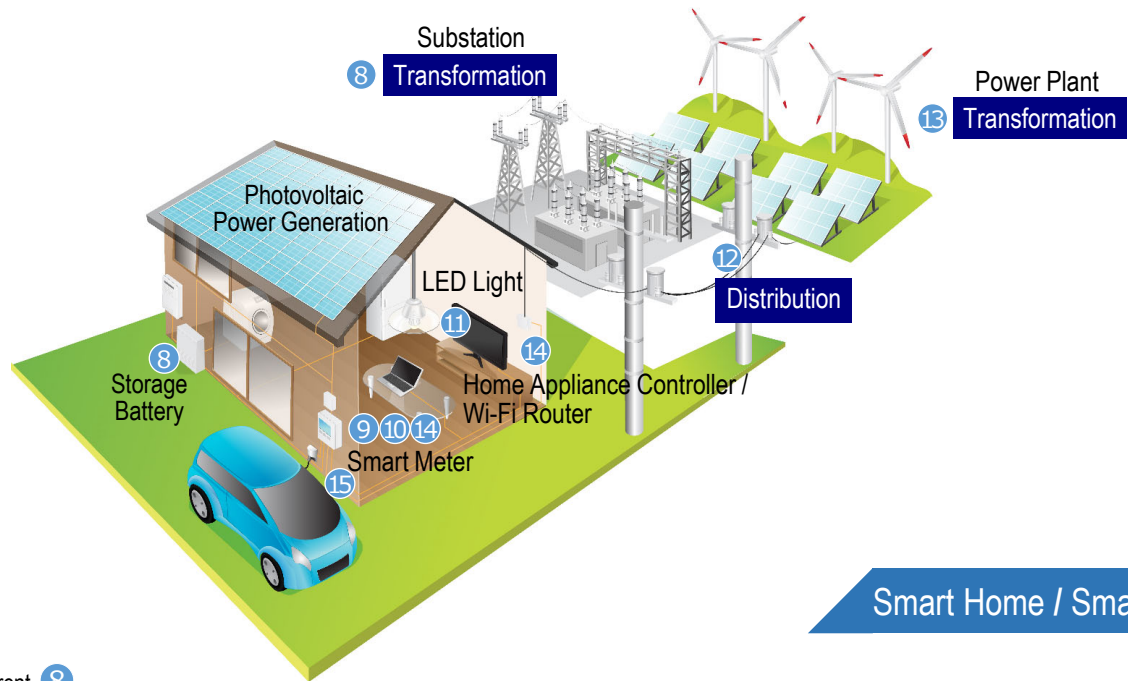
## Railway Vehicles



Our products support Shinkansen services in Japan and new high-speed trains overseas.



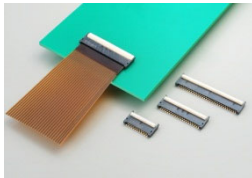
# Industrial & Infrastructure Equipment



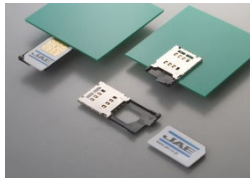
High-Current 8



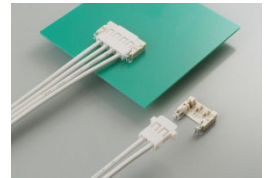
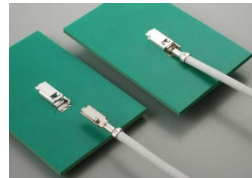
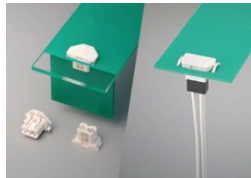
Board to FPC 9



SIM / SAM Card 10



LED Lighting 11



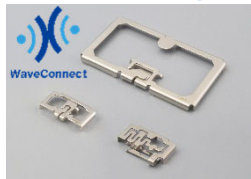
Waterproof I/O 12



I/O 13



Antenna for IoT / Wi-Fi 14



EV Charging Connector for V2H 15



EV Fast Charging Connector 16



## Energy Storage System



## Electric Vehicle Quick Charger



# Industrial & Infrastructure Equipment

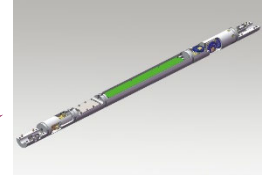
## Oil Drilling Equipment



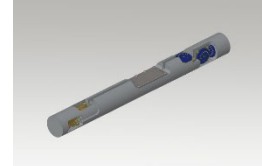
Accelerometers for Oil Drilling



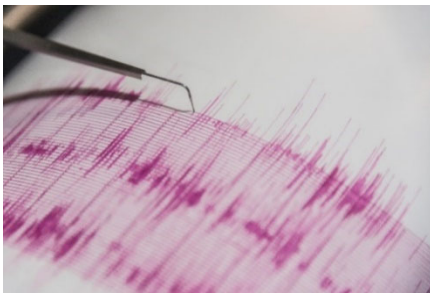
SMART Directional Module (Standard Communication Protocols) 1



Analog Directional Module 1



## Earthquake / Tsunami Observation



Accelerometer



## Deterioration Diagnosis



High Accuracy MEMS Accelerometer



## Marine



High Performance Compact RLG Inertial Navigation System



## Drone



High Reliability Flight Controller



Compact Waterproof In-line Connector



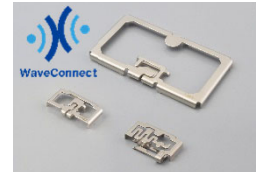
Compact Low-profile Connector



## i-Construction / Agricultural Machine



Antenna for IoT / ICT



MEMS IMU



# Aviation / Space / Others

## Commercial Aircraft



## Accelerometer

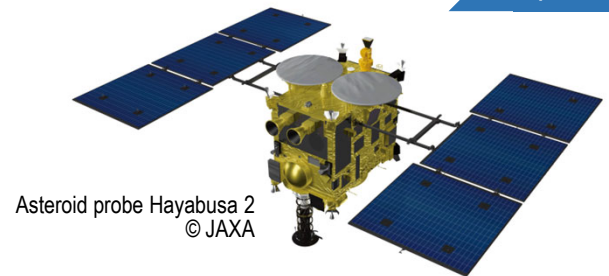


## Aviation



F-2 © JASDF

## Space

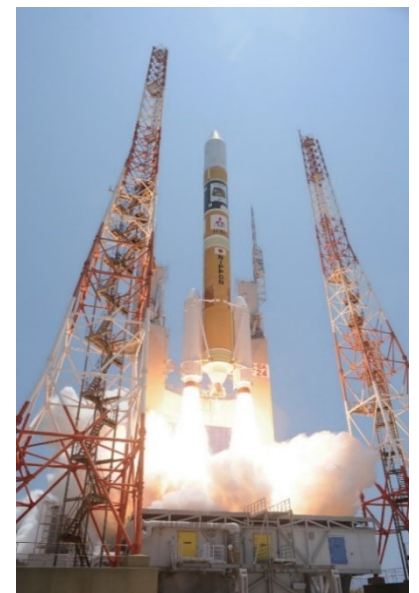


Asteroid probe Hayabusa 2 © JAXA



US-2 STOL Search and Rescue Amphibians © ShinMaywa Industries, Ltd.

## Accelerometer



H-II A Launch Vehicle

© JAXA

## Inertial Reference Unit for Scientific Satellite



## Ring Laser Gyro



## Inertial Measurement Unit for Launch Vehicle



In addition, many of our products are used for umbilical connectors that connect launch vehicles and ground equipment, and for internal wiring and device connections.

## Camera Stabilizer



© Hokkaido Cultural Broadcasting Co., Ltd.

## Camera Stabilizer (HD / 4K)



## Camera Stabilizer (EO / IR)



## Camera Stabilizer For Ships (EO / IR)





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Tel: +81-3-3780-2711

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March 2023