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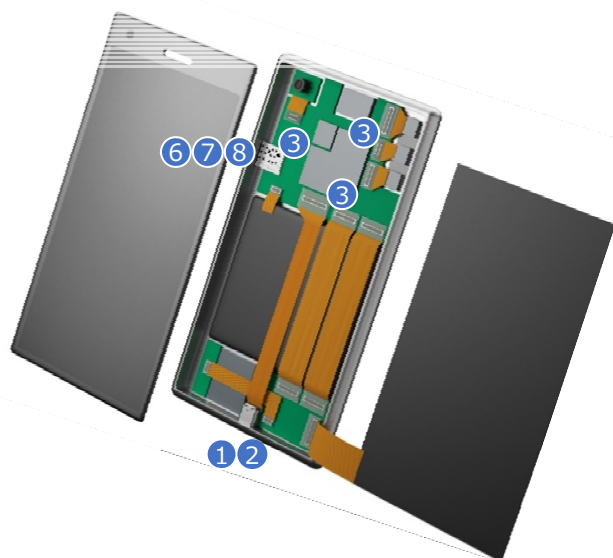
August 2021

Applications Guide



Mobile & Wearable Devices

Smartphone



– I/O –

USB Type-C® Standard 1

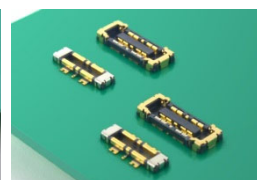
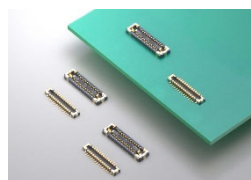
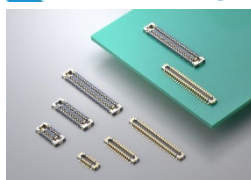


AOC (Active Optical Cable) 2

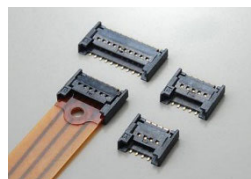
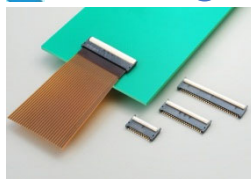


– Internal –

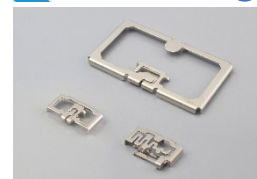
Board to Board 3



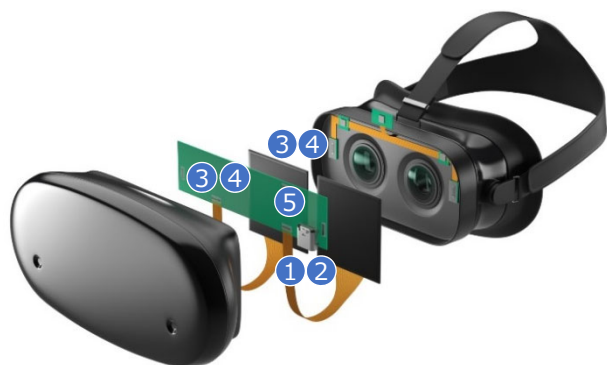
Board to FPC 4



Antenna for Wi-Fi 5

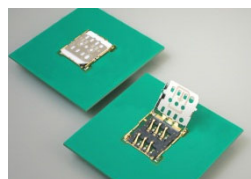
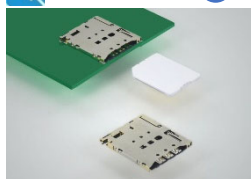


Head Mounted Display



– Card –

microSIM Card 6



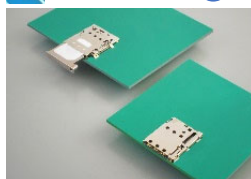
Smart Watch



microSD™ Card 7



nanoSIM Card 8

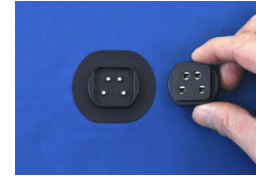


Mobile & Wearable Devices

Smart Clothing

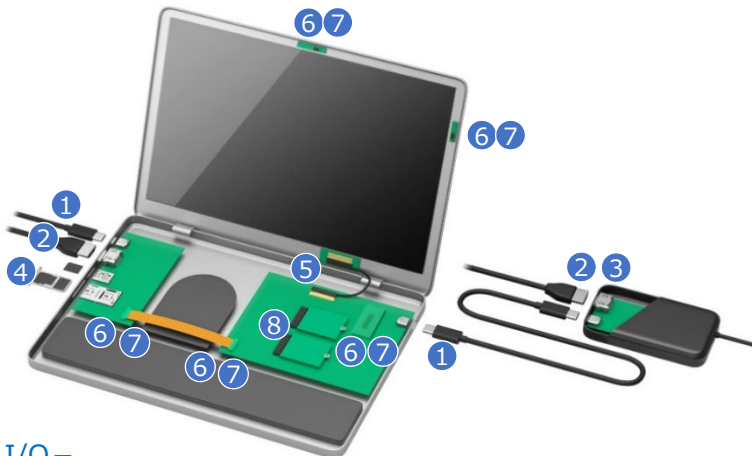


Smart textiles adaptable 9

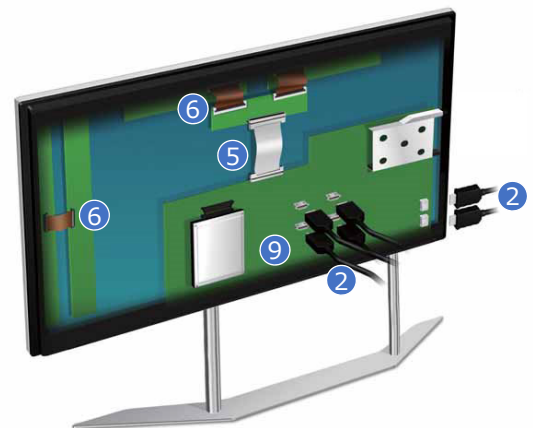


Notebook PC / FPD TV

Notebook PC



FPD TV



– I/O –

USB Type-C® Standard 1



HDMI™ Standard 2



I/O Docking 3



– Card –

microSD™ Card 4

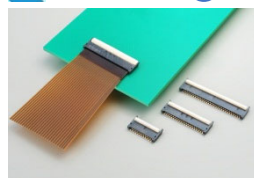


– Internal –

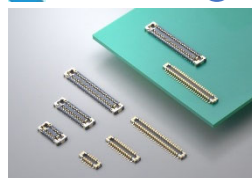
I/O for LCD 5



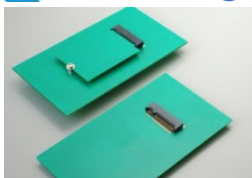
Board to FPC 6



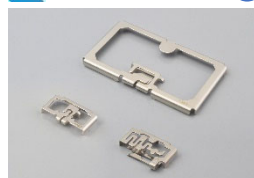
Board to Board 7



Module Socket 8



Antenna for Wi-Fi 9



Automotive

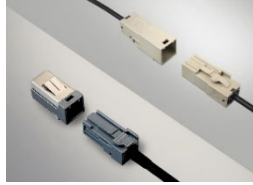
ADAS

- Camera Line -

 Automotive Digital Camera




 Automotive Digital Camera



 In-vehicle for ICT Devices



 Automotive FAKRA Standard Compatible



ADAS

- Powertrain -


 High Pin Count, Compact Waterproof



 High Pin Count Waterproof



- Active Sensor -

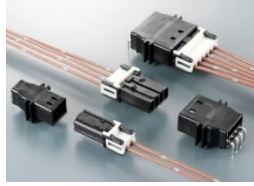
 Compatible with 0.35sq Wire



 Compact Waterproof




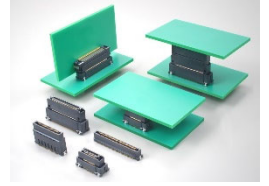
 Low Pin Counts. Waterproof




 Waterproof Board to Cable 040 Contact

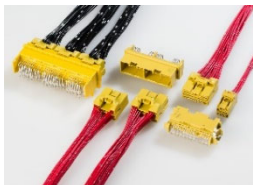


 High-speed Floating Board to board




- Safety -

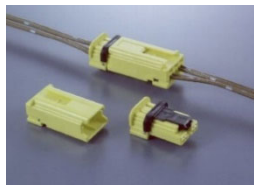
 0.64 (025) Non-waterproof SRS



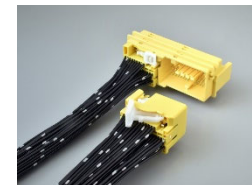
 In-line Waterproof For Airbags



 In-line Non-Waterproof For Airbags



 High Pin Count For Airbags



 Self-rejecting Squib



Motion Sensing / Operation Control

- Inertial Measurement Unit -

 High Performance MEMS- IMU



Motion Sensing / Operation Control

Automotive

Connected Car

- Infotainment User Interface -

Automotive HDMI™



USB Type-C® Standard



USB Type-A® Charging for Automotive

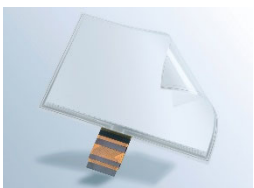


Connected Car

Capacitive Touch Panel



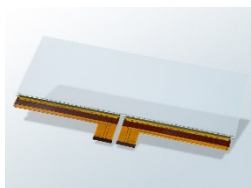
Glass Type



Film Type



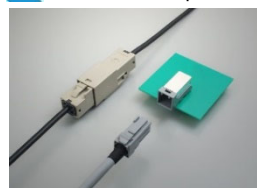
Fully Transparent Type



Frameless Type

- In-Vehicle Infotainment -

Automotive USB2.0 Standard Compatible



Automotive USB 3.0 High Speed



Automotive LVDS/GVIF* Compatible



*GVIF is a trademark of Sony Corporation

Small Coaxial (50Ω / 75Ω)



- Antenna -

Antenna for Automotive



Antenna

E-mobility

- Battery System -

High Voltage for EV/PHEV



High-density Non-waterproof



SMT, Compact, Low-profile



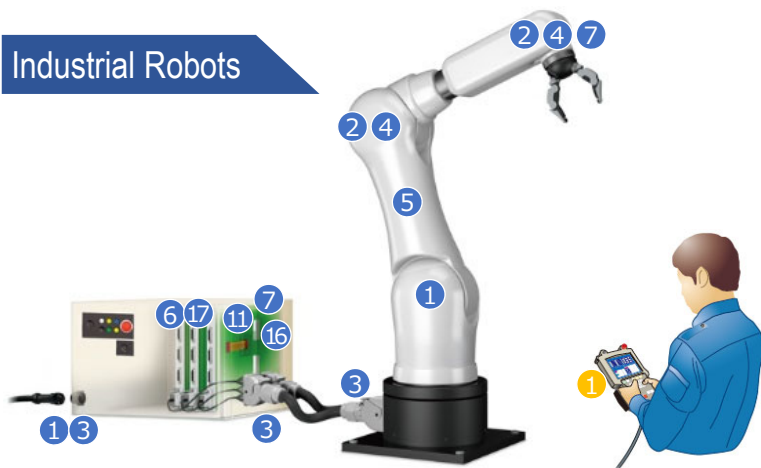
Using Low Flammability Material UL94V-0 for EV/PHEV



E-mobility

Industrial & Infrastructure Equipment

Industrial Robots



Numerical Control Machines



Circular I/O 1



Small Circular I/O 2



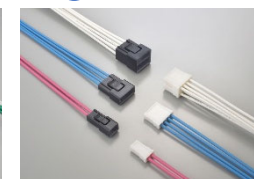
Rectangular I/O 3



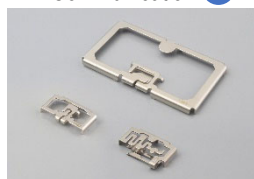
Small Servo Motor Connectors (Waterproof) 4



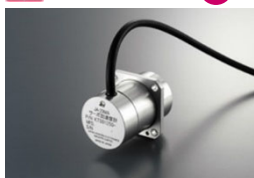
Waterproof Cable to Cable 5



Fiber Optic Connector-Type07 6



Accelerometer 1



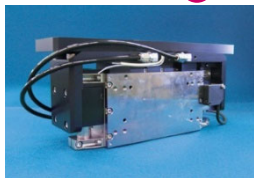
Optical Filter / Laser Mirror 3



Teaching Pendant 1



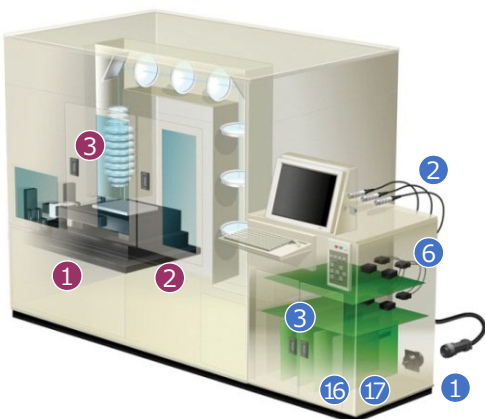
Linear Motor 2



Operation Panel 2



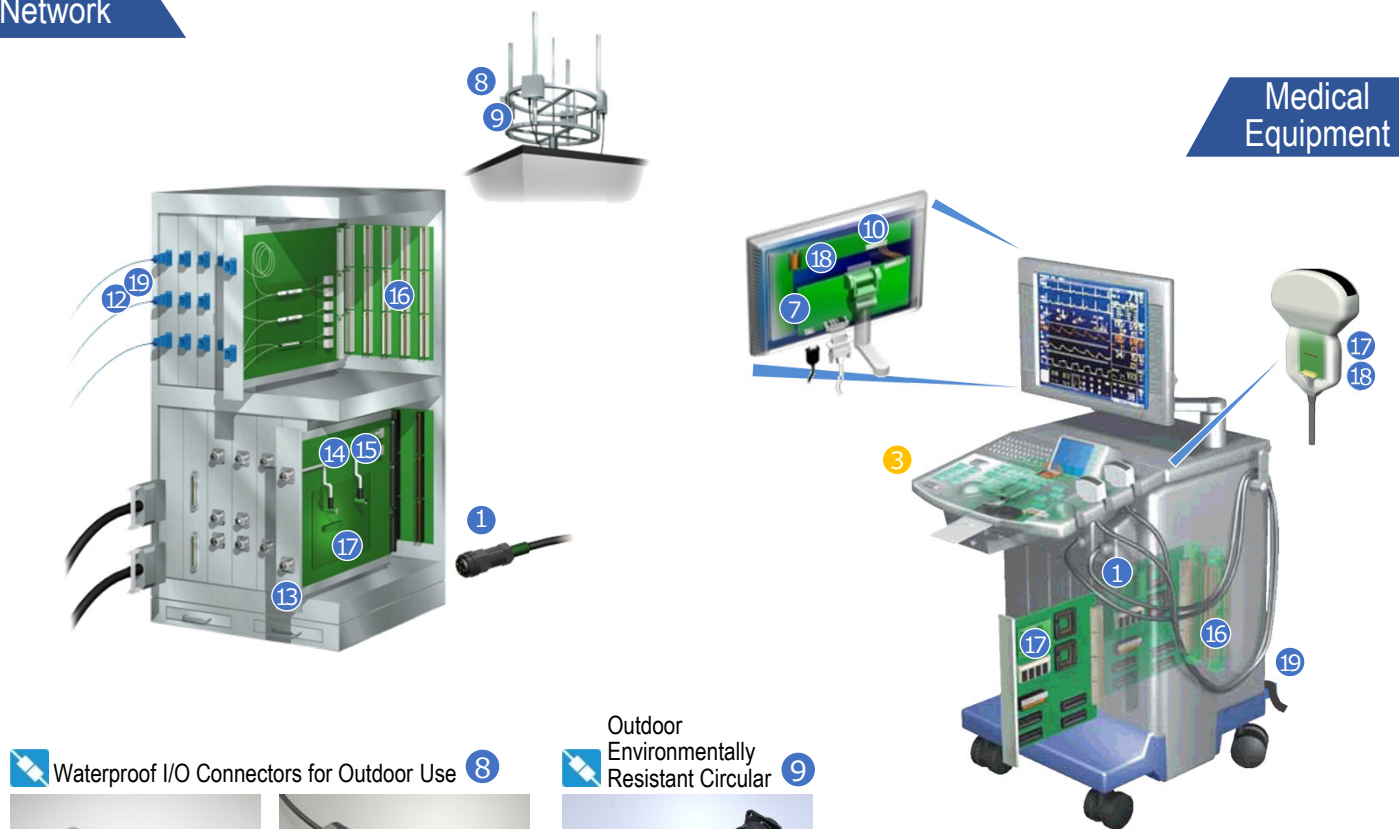
Semiconductor Production Equipment



Industrial & Infrastructure Equipment

Network

Medical Equipment



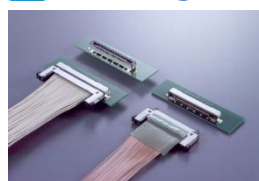
Waterproof I/O Connectors for Outdoor Use 8



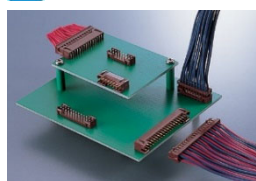
Outdoor Environmentally Resistant Circular 9



I/O for LCD 10



Board to Cable 11



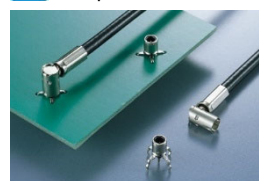
Fiber Optic Connectors-Type SC 12



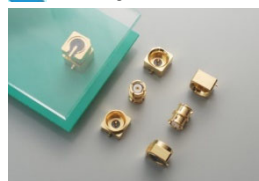
SMA Standard Coaxial, End Launch Type 13



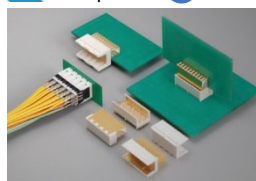
SMB Standard Compliant Coaxial 14



Board to Board Floating Coaxial 15



Backplane 16



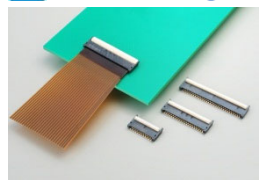
Board to Board 17



Board to Board 17



Board to FPC 18



AOC (Active Optical Cable) 19

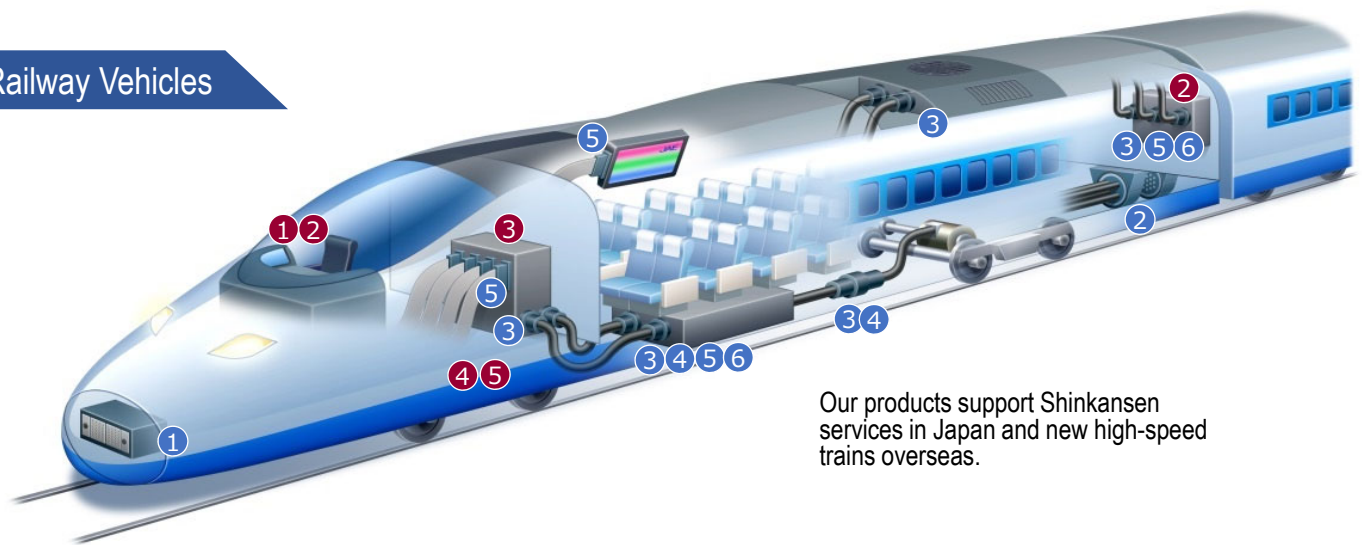


Panel Unit for Diagnostic Ultrasound System 3




Industrial & Infrastructure Equipment

Railway Vehicles

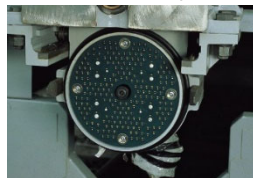



Our products support Shinkansen services in Japan and new high-speed trains overseas.

 Train Car Coupler 1



 Train Car Coupler 2



 Circular I/O 3




 Circular I/O 3




 Circular I/O 3



 High-Current 4



 Rectangular I/O 5



 Rectangular I/O 5



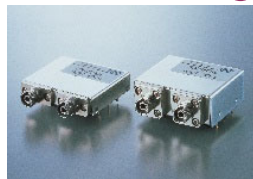
 Multi Fiber Optic Connectors 6




 High-Brightness Liquid Crystal Color Display 1



 Optical Data Link 2



 High Performance Compact RLG Inertial Navigation System 3



 High Performance Compact FOG Inertial Measurement System 4



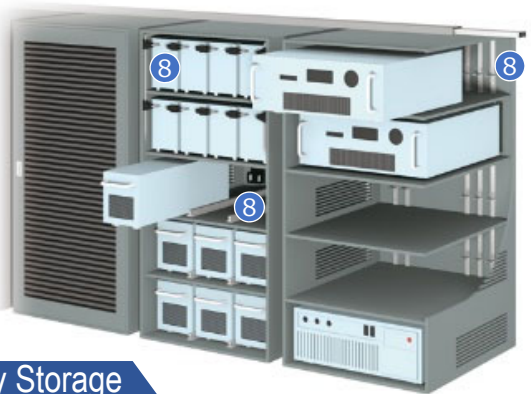
 High Performance MEMS-IMU 5



 Traffic Control 7

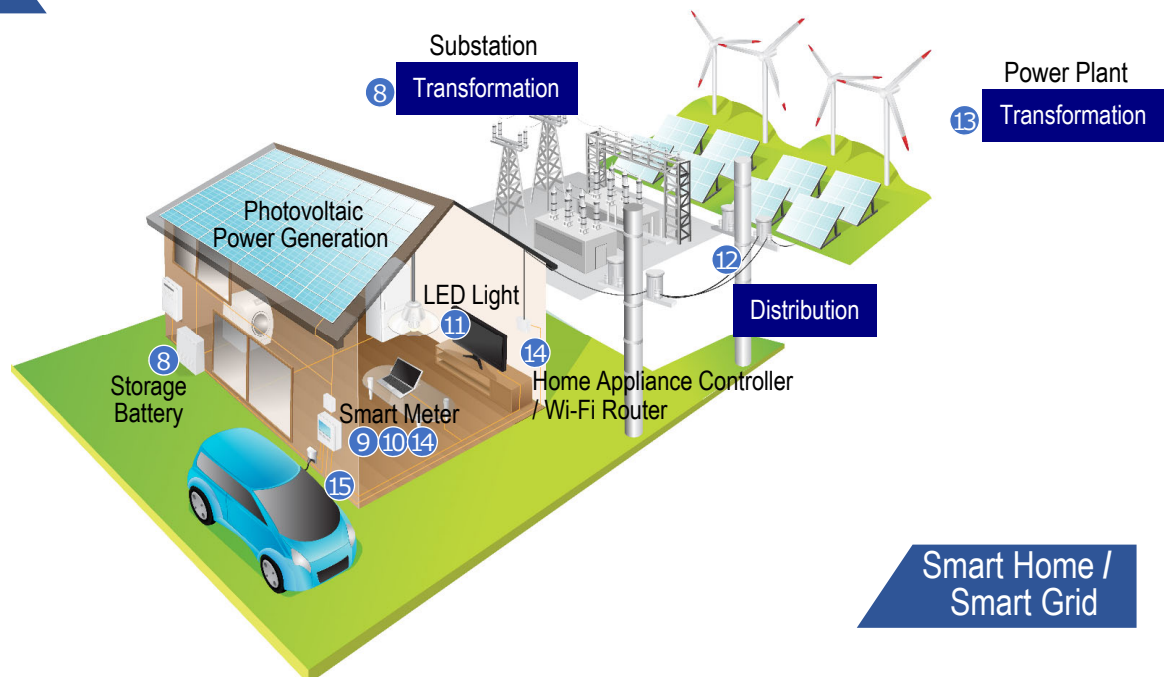


Industrial & Infrastructure Equipment



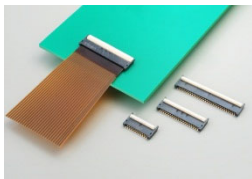
Energy Storage System

High-Current 8



Smart Home / Smart Grid

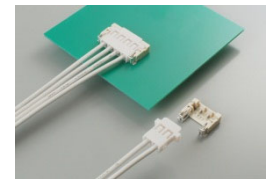
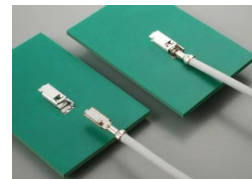
Board to FPC 9



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



Electric Vehicle Quick Charger



Industrial & Infrastructure Equipment

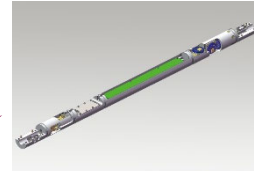
Oil Drilling Equipment



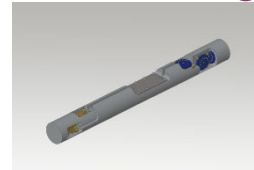
Accelerometers for Oil Drilling



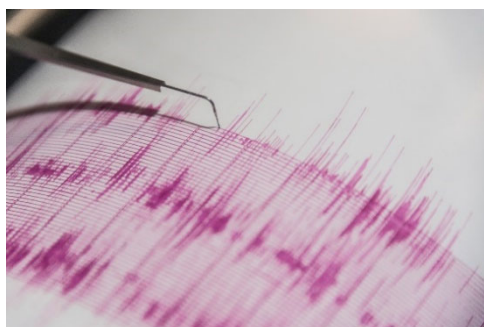
SMART Directional Module
(Standard Communication Protocols)



Analog Directional Module



Earthquake / Tsunami Observation



Accelerometer



High Accuracy MEMS Accelerometer



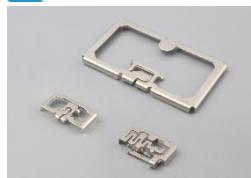
Deterioration Diagnosis

Marine



Deep Sea Driving AUV YUMEIRUKA ©JAMSTEC

Antenna for IoT / ICT



High Performance Compact RLG Inertial Navigation System



MEMS IMU

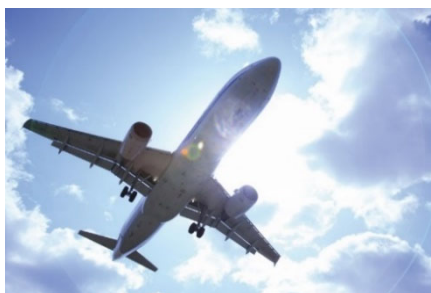


i-Construction / Agricultural Machine



Aviation / Space / Others

Commercial Aircraft



Accelerometer

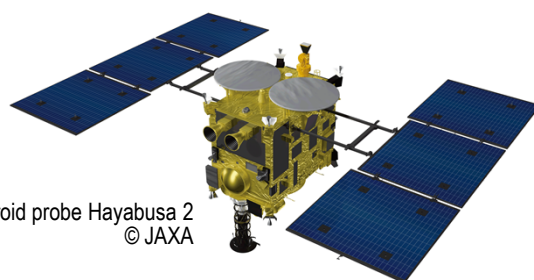


Aviation



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



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Camera Stabilizer (HD / 4K)



Camera Stabilizer (EO / IR)



Camera Stabilizer For Ships (EO / IR)

