Murata today | Murata's growth trajectory and expansion in field of electronics

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As the functionality of cellular phones has improved and the speed/capacity of communications systems has risen, we have achieved tremendous growth by pursuing business globally and expanding product development and production capacity with a focus on growing markets. With 5G proliferating since we entered the 2020s, industries and companies have undergone immense changes. In around 2030, 6G will arrive, and communications as social infrastructure is projected to see further advances. We will expectedly enter a world where everything is connected via communications systems.

In response to such technological innovations, the electronics field will continue to expand, and business opportunities for Murata will also multiply.





Market expansion in infrastructure business domain

Future of communications

Network side

- Emergence of large-capacity optical communications to support
- ultra-high-speed communications and large-scale computation

 Transmission ranges are limited, so high efficiency relay devices and base stations will increase
- The processing and communications capability of devices and other hardware will also support high speed communications

Business opportunities

- Rise in demand for high levels of performance and reliability to support network connectivity functions
- Increase in demand for components due to more connected devices



Device side

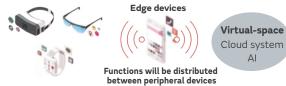
Market trends

- Increasing shift toward wearable and implantable devices
- Acquire and digitalize all types of information
 Develop advanced modules and sensors
- Need for miniaturization, enhanced energy saving, and improved reliability in order to make devices more portable and wearable

Business opportunities

- Increase in demand for small and high performance components and
- Increasing technical requirements to reduce electricity consumed
- and improve efficiency

 Added value will shift to hardware + software/solutions



Future of mobility

In-vehicle domain

- Evolution of autonomous driving technology alongside xEV shift
- More importance for ECUs due to more data processing and increasing complexity of controls

Higher demand for electronic components

Electrification



Multilaver ceramic High temperature film capacitors for automotive Autonomous systems



MEMS inertial



Out-vehicle domain

- Expansion of vehicle-based services such as MaaS (Mobility as a Service) due to the connection of vehicles to social platforms via communications technology
- Robot taxis, micro mobility and flying cars (eVTOLs) are emerging as new modes of transportation

Growth of mobility business through technological innovation for CASE (connected, autonomous, shared, and electric) vehicles

- We will use our knowledge gained from the communication field to provide new value, including software and solutions
- Exploration of business opportunities in the out-vehicle domain

Message

Strengthening of "Power to Sell" as the market expands

Murata has always had a strong sales structure built on a well-established Account Management foundation. Accounts are supported globally, regionally, or locally depending on the scale of the business. Information sharing across our entities, a strong business development team, and our network of rep and distribution partners make sales one of our strengths.

Many things changed during the global pandemic. Access to the customer, specifically engineers, has become increasingly difficult. Therefore, we need to reimagine our efforts to engage them and advance our "Power to Sell."

Our goal in the Americas is to create an exceptional customer Digital Experience. To do so, we built an enhanced website with a focus on increased technical content, developed a studio to create video content, launched a 24/7 Community forum for engineers to chat with our team and share knowledge within the community. These efforts work seamlessly with our evolving distribution partners and the

rapidly growing web distributors network.

This improved customer experience generates a wealth of data from markets, applications, products, and specific customer needs and contacts. We can link various parts of this data to our Customer Relationship Management (CRM)

system that helps us focus and prioritize our sales and engineering resources.

This Customer Digital Experience is leading to an elevated Sales Experience for our team and an even better Employee Experience. We plan to continue these efforts and improve our "Power to Sell."



President and CEO, Murata Electronics North America, Inc. David Kirk