R&D and Intellectual Property Strategy

Creating Unique Products by Fusing Analog, Digital, and MEMS Technologies

MegaChips meets customers’ needs based on its proprietary technologies and put all its effort into the research and development of application technologies to distinguish its products from those of competitors.

To ensure our superiority and uniqueness through research and development, we promote the protection of our own intellectual property rights.

Major Achievements in R&D for FY2018

- Game software storage LSI
- Intellectual property core and LSI for optical communications
- Analog front-end LSI
- LSI for wired (coaxial and power line) multi-hop communications
- Smart Connectivity LSI (DisplayPort)
- MEMS timing devices

Intellectual Property Strategy

Since MegaChips is a fabless manufacturer, our unique ideas, expertise, and other intellectual properties derived from R&D activities constitute the foundation of our competitive advantage. Accordingly, protecting our intellectual property rights will lead to greater competitiveness and growth potential.

In FY2018, we filed patent applications such as high-speed cable communication technology, improved reliability of memory for game devices, amp control technology for communication devices and ESD circuit protection technology. A patent application was also submitted for basic and applied technologies used for security for game devices and electronic devices, and technology for IoT devices.

R&D Policy:
Provide system LSIs and solutions with our unique analog, digital, and MEMS technologies.

Launch of the “Emerald Platform™”, a MEMS Timing Device for 5G infrastructure

SiTime has begun providing samples of the high-precision MEMS Timing Device, “Emerald Platform™”, for the 5G infrastructure device and measurement device markets. With the Emerald Platform, operators can deploy 5G equipment in harsh environments and these products solves many of the device issue and complexities of product development required in the 5G market. We will continuously strive to develop the next generation timing device product with the communications infrastructure market as the main target.