

# Sensing & Devices Business

Supplying devices that form the core of various industrial products worldwide, making people's lives more convenient and creating a safe, secure, and comfortable society



## Business Areas

The Sensing & Devices (S&D) Company is developing business in the optical communications market while also pioneering the sensing market in order to expand its business.

In the optical communications market, we supply semiconductor lasers for excitation used in optical fiber amplifiers (OFAs) that amplify optical signals as it is, and semiconductor optical amplifiers (SOAs) used in optical transceivers to counter attenuation in the communication signals. In the sensing market, we see business opportunities in the changing social environment, and in the past few years we have been strengthening our efforts in the ophthalmic medical device market, which is expanding due to the aging population. For example, in order to treat cataracts it may be necessary to replace the turbid crystalline lens with an artificial lens. Our retinal scanner devices can adequately measure the eye axial length to determine the required lens power. They can also be used for retina cross section measurement for the early detection of age-related macular degeneration and glaucoma. We also supply light sources for other devices, such as devices for gas leak detection. In addition, as the Device Division, which assumes the core competence of Anritsu Group, we supply critical devices for Anritsu's in-house telecommunications measuring instruments.

## Market Environment and Business Opportunities

One of Anritsu's composite semiconductor devices based on indium phosphide (InP) is expected to increase in market

Executive Officer  
Sensing & Devices Company  
President

**Yasunobu Hashimoto**



value due to their high-speed and high-frequency characteristics in the new millimeter wave area, which is expected to be utilized in the coming all-optical network era and 6G.

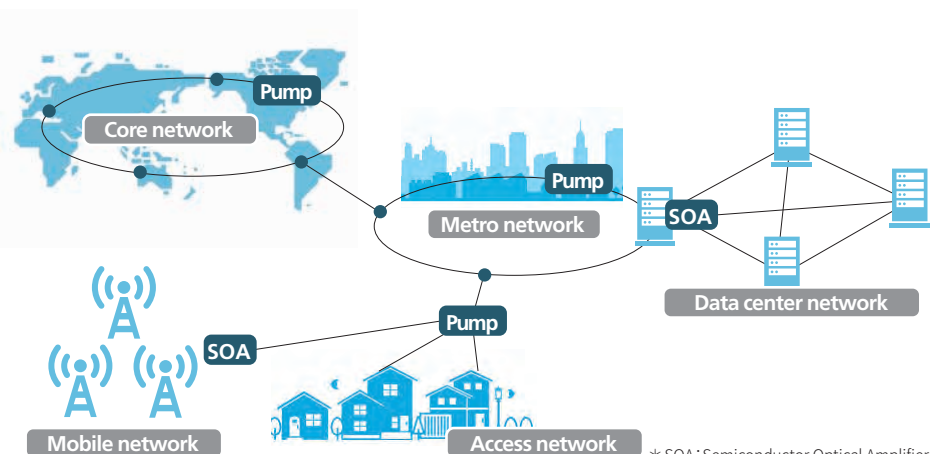
For optical fiber amplifiers, which are expected to broaden their wavelength multiplexing bandwidth, we are working to increase the output power of pumping lasers and to increase available wavelength. And for semiconductor optical amplifier devices, we are working on longer distances, smaller sizes, and lower power consumption of optical transceivers. Such semiconductor optical amplifiers are also expected to be in demand in the industrial LiDAR and fiber optic sensing fields, where high power lasers are needed for long distance applications. We will grow our S&D business by acquiring opportunities for these new optical sensing businesses and by aggressively developing our proven business of light sources for ophthalmic medical equipment.

## SDGs Undertaken by the S&D Business

The S&D business contributes to SDG Goal 9, "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation," and SDG Goal 11, "Make cities and human settlements inclusive, safe, resilient and sustainable," by supplying critical devices to customers around the world for various industrial products, such as the construction of stable communication environments, medical devices for an aging society, and gas leak detection devices.

### Communication

Products such as pump lasers and semiconductor optical amplifiers (SOA) used in optical fiber amplifiers and optical transceivers are supporting communication networks.



\* SOA: Semiconductor Optical Amplifier