

# Realizing Safe and Affluent Society and Aiming for Advanced Communication

**SUWA Yorihisa**  
President & CEO  
Japan Radio Co., Ltd.  
[www.jrc.co.jp](http://www.jrc.co.jp)

Since its foundation in 1915 as a manufacturer of wireless communication devices for ships, Japan Radio Co. Ltd. (JRC) has developed as a pioneer of wireless communication devices committed to its 'Technology Centered, Quality Centered' stance. Furthermore, going beyond the field of wireless communication, its applied technology has brought many different epoch-making products to society such as Japan's first meteorologic radar and first simultaneous interpreting device, and the world's first commercial-use GPS receiver for car navigation systems.

As for the sphere of the sea, which could be said to be the origin of JRC's business, ships must often sail under hostile environmental conditions and so robust, advanced communications ability is essential. As well as Japan's first Inmarsat earth station device for ships, JRC has provided all kinds of wireless devices for commercial vessels, fishing boats, work boats and pleasure boats. It has also developed ARPA (Automatic Radar Plotting Aid), ECDIS (Electronic Chart and Display Information Systems), VDR (Voyage Data Recorder) and GPS/DPGS navigation devices.

Moreover, under the VTS (Vessel Traffic Management System) and GMDSS (Global Maritime Distress and Safety System) which support safe, efficient shipping operation, it provides radar and monitoring devices to port facilities and coastal stations in various countries.

Developed as an applied technology for radar, meteorologic radar, which is used in meteorological observatories and airports in Japan and abroad, has advanced so far that in the crystallization of that technology, it has been installed in small business jets in the US.

In the ITS (Intelligent Transport Systems) field too, which will bear the transportation of the 21st century, JRC offers systems and devices to support safe and smooth transportation. Since their launch in 1990, commercial use GPS receivers for car navigation systems

have continued to be chosen by customers due to the advancement of the products and their high reliability. JRC commands the highest share of the domestic market and has shipped 12 million to date.

For land transportation in future, communications between car and car, and from car to road (facilities) will become indispensable. JRC is pro-actively pursuing this field as well.

In the future, a ubiquitous society is expected to be realized in which an environment will be created that connects to a high speed, high capacity "Anytime, Anywhere" network. It will be a society in which various services are offered and people's everyday life will more convenient. This is not only applies to computers indoors, but means you will be able to connect to a network while in a car, plane, ship or any place at any time.

JRC has up until now developed various devices and has contributed to the construction of networks for communication infrastructure. Currently it offers LPA (Linear Power Amplifier) for cell phone base stations and FWA (Fixed Wireless Access) systems and wireless LANs. It is contributing to society with the construction of a wide range of communication networks.

Even higher speed and capacity will be required in the information communication field in the future. The role of wireless in this will be significant and sophisticated technology will be needed. This will likely be realized with an amalgamation of elemental technology.

JRC believes that the development of technology that will support both the current and next generations and beyond is essential, and is actively pursuing such initiatives.

In the field of broadband which is expanding worldwide, JRC intends to take a leading role.

