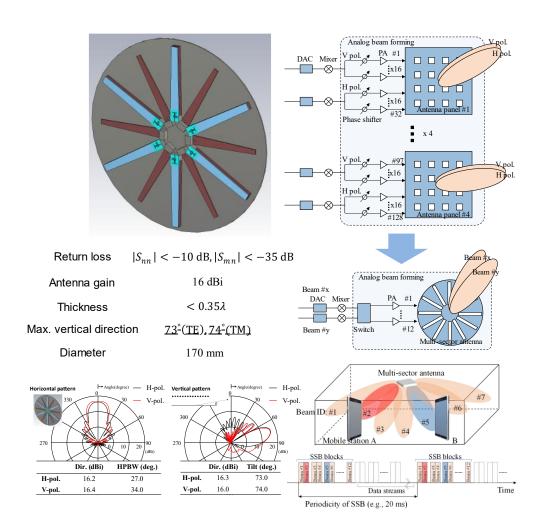


Multi-sector antenna using dielectric image lines

The antennas enable cellular operators to achieve high quality area deployment #Productivity Improvement



///Technical Issue

In the millimeter wave band, it is difficult to deliver radio waves in all azimuth directions in 360 degrees because it is necessary to focus radio waves with an antenna.

---Technology

Multi-sector antenna technology with switching highgain antennas arranged in 12 directions and dielectric image lines enables 360° horizontal omni-directional communication and a compact, lightweight design.

---Applicable Business

///Research Goal

This antenna reduces power consumption to 1/10 compared to conventional base station equipment.

---Novelty

Exhibition of low-profile antenna for indoor area using millimeter-wave bands (world's first antenna). This antenna reduces power consumption to 1/10 compared to conventional base station equipment.

It can be used to build a high-capacity, high-speed communication environment for IOWN by expanding the indoor millimeter wave for information and communication industry (Scheduled commercial introduction: around 2026).