NEW THREE DIMENSIONAL PHASED ARRAY ANTENNA FOR SPACE COMMUNICATIONS

Nobuyuki Kaya
O3b Network Ground Gateway Station
New 3-Dimensional Phased Array Antenna

Weather Phased Array Radar

Aegis Ashore
US$ 800M
Product 1: Phased Array Antenna for Space Communication

Beam control system without Mechanical Drives

Simultaneous Receiving with Digital Beam Forming

Ground Gateway Station
Receiving Test for the Proof of Concept using Japanese satellites

Testing to receive signals from satellites with one pole phased array antenna, which connects to AD converters.
Receiving Test with Satellite Constellation

Satellite A
Satellite B
Satellite C

Simultaneous Receiving

Small satellites

Digital Beam Forming
Welcome to our Booth