

## New Products

### **60 GHz Wireless Communications Module**

On September 6, 2024, a huge complex called "Grand Green Osaka" opened on the north side of JR Osaka Station (Osaka, Japan). At the opening event, Osaka University and the Advanced Telecommunications Research Institute International conducted a demonstration experiment in which robots and CG agents called "cybernetic avatars" operated by humans in collaboration with AI were remotely controlled to provide guidance and security within the facility. To remotely control the avatars, Fujikura's 60 GHz millimeter-wave wireless communications modules were used as the backhaul, along with Wi-Fi and a local 5G system. In the experiment, AI-equipped robots and CG avatars conversed with visitors, guiding them around the facility and introducing the events. The avatars responded automatically to simple questions, while operators handled more difficult questions and problems remotely. The remote operations were carried out by students, working adults, and senior citizens living in Osaka, Tokyo, Nagasaki, and even those from Spain. In this demonstration experiment, the Fujikura's 60 GHz millimeter-wave wireless communications modules demonstrated their low latency and high-capacity communication features, supporting smooth remote control of the cybernetic avatars.

(Millimeter-wave Business Development Group Takaharu Hondo)

[Contact Information]  
Takaharu Hondo  
Millimeter-wave Business Development Group  
Phone : +81-43-484-3967  
E-mail : [mmwaveltech@jp.fujikura.com](mailto:mmwaveltech@jp.fujikura.com)

