

World Debut of the SHF-P1, 2.4 GHz / 5.6 GHz Concept

For more than half a century, Icom has created new technology for Amateur Radio. Our engineers have a new project, “Icom SHF Project – Super High Frequency Band Challenge”. While hams have experimented with 2.4 and 5.6 GHz bands, this is an industry first for an Amateur Radio manufacturer to develop such a product.



**Covers 2.4 GHz/5.6 GHz,
All Modes including the DV/DD Modes**

Antenna Mounted RF Module

PoE Power Source for RF Module

**Advanced Frequency Stability
with a GPS 1PPS Signal**

Compact IC-705 Based Controller Design

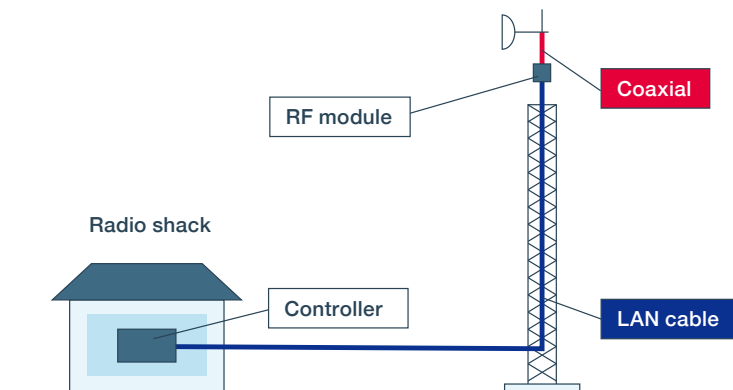
Wide-span Real-time Spectrum Scope



RF Module

PoE Controller to RF Unit Connection

Due to feedline power loss, Icom designed the RF module for an outdoor environment, placing the RF module at the antenna. This design minimizes the length of feedline used, thus reducing the RF loss. So, maximum output power is supplied to the antenna feed point.

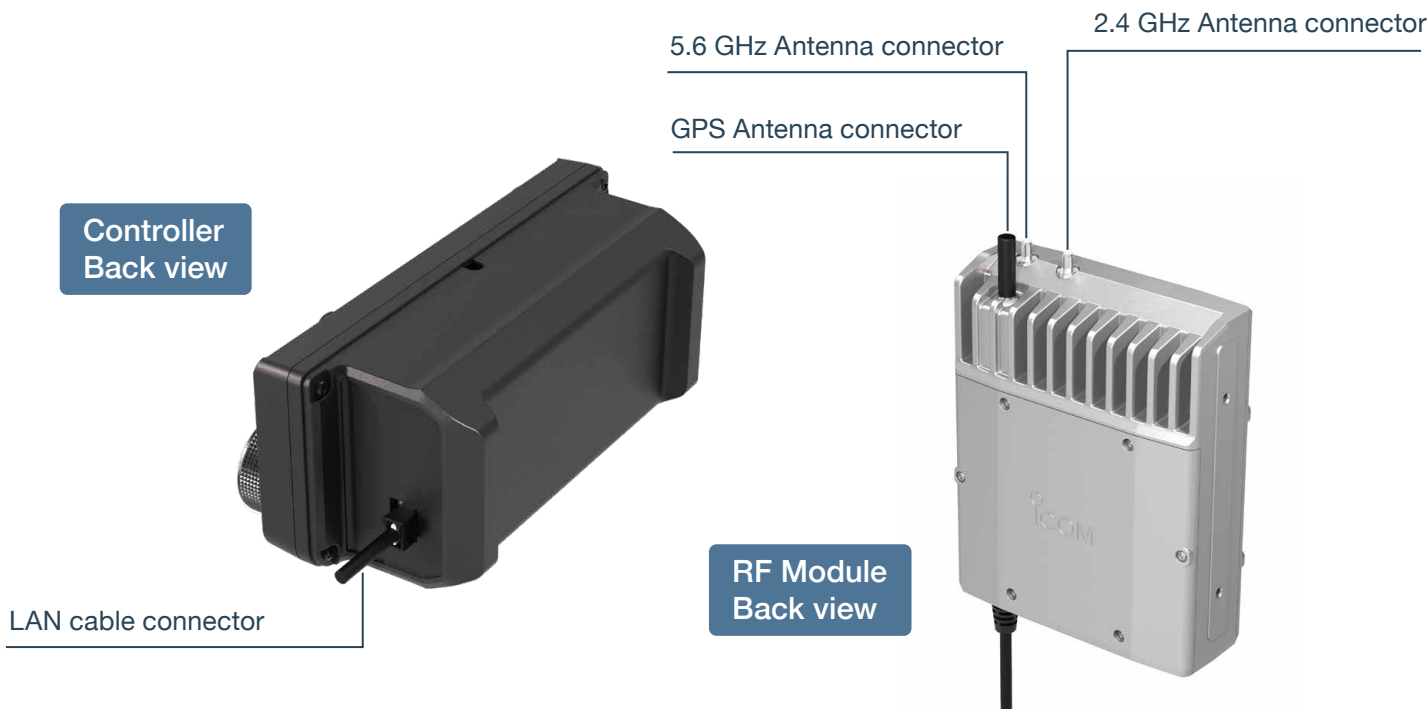


By adopting PoE technology, the connection is made with a single cable, providing a more flexible mounting solution for the RF module. Additionally, the PoE technology makes it possible to use a higher voltage, reducing the current needed for a stable power source for the RF module.

Ultimate Frequency Accuracy and Stability with a Clock Signal from GPS (GNSS)

We have adopted a high-precision 1 Pulse-per-second (1PPS) clock signal from a GNSS (GPS) receiver to enable advanced frequency management. By synchronizing with this reference signal, the OCXO frequency can be compensated with high accuracy.

Configuration



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