

Software-Defined Radio



By implementing the core components of the radio—filter, modulation, and demodulation—in software, miniaturization and power saving are achieved.

Challenges of conventional radios



Large size

fixed wireless specifications

Introduction of software radio technology enables compact CBTC radios

Software-Defined Radio

Software implementation of filter, modulation, and demodulation



achieves miniaturization, power saving

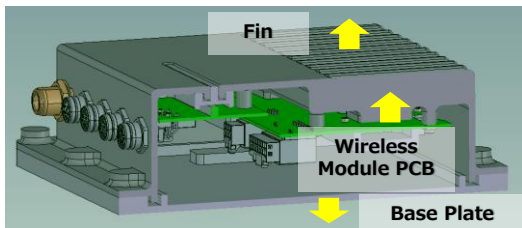
adaptability to various wireless specifications

functional upgrades.

Designed for dusty environments and tight spaces. High environmental resistance achieved through a compact metal housing integrated with a heat sink.

1

Miniaturization and fanlessization



- Where space allows, heat is dissipated from fins into the air.
- In confined spaces, heat is conducted from the base to the mounting enclosure.

No Fan Required
Eliminates Maintenance and
Limited Lifespan

2

Improved installation flexibility



- Dustproof and Waterproof Performance: IP67
- Operates Across a Wide Temperature Range

Improved Flexibility
in Antenna and Radio
Installation

3

Enhanced reliability



- Strong circuit protection with metal shielding
- preventing dust and contaminated air from entering the housing.

Adaptable to Various
Environments, Ensuring High-
Reliability Operation

Item	Spec.
Frequency	2400 ~ 2484 MHz
Transmit Power	Max +30dBm
Bandwidth	Max 40MHz
Operating Temperature Range	-20 ~ +70 °C
Dimensions	216 x 291 x 68.5 mm
Input Voltage	DC 12 ~ 24 V
Wireless Interface	TX/RX 1port / RX only 1port
External Interface	Ethernet×2 / RS422×4
Power Consumption	20W
Environmental Resistance	IP67