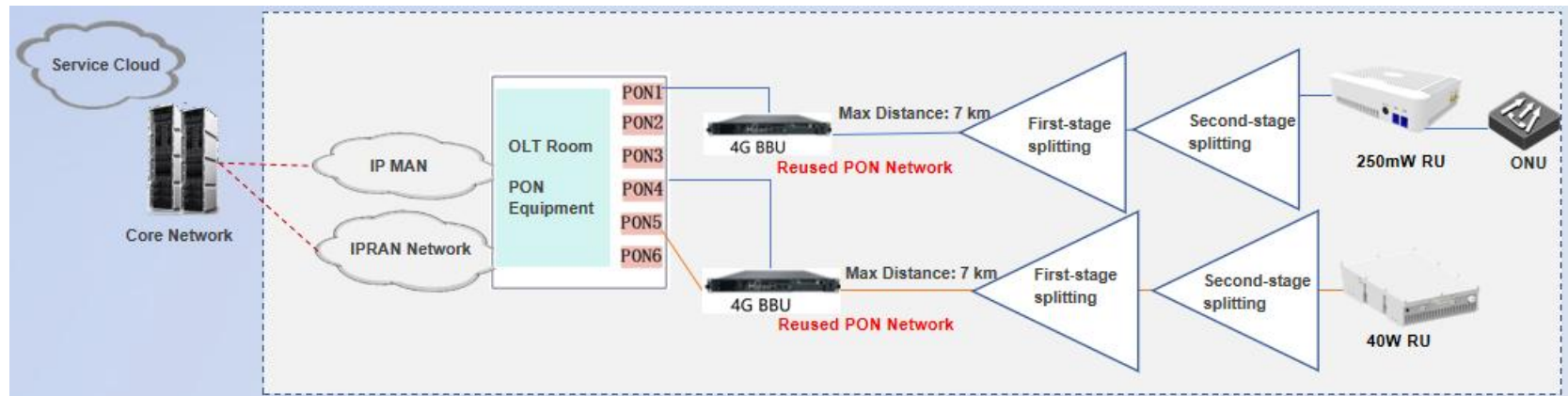# PONCELL
Integrated Coverage Solution

Overview

The PONCELL base station solution reuses the PON network without affecting broadband services, and achieves LTE/NR coverage by leveraging time-division fronthaul technology.

Networking Architecture

The PONCELL base station adopts a two-level distributed architecture, consisting of BBU and RU. The BBU handles digital signal processing, while the RU is responsible for RF signal transmission and reception.

Features

Time-division fronthaul technology

✓ Reuse PON network for fixed-mobile convergence; "PON network coverage = cellular wireless coverage"

Flexible deployment

✓ BBU centralized in equipment room; RU plug-and-play; 4/5G coverage via PON network quickly

Low construction investment

✓ Two-level architecture saves expansion units; PON network reuse cuts fiber costs

Easy maintenance

✓ All devices support network management; BBU centralized deployment eases maintenance
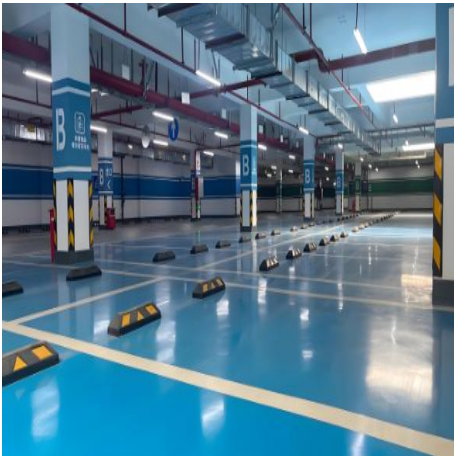
Application Scenarios

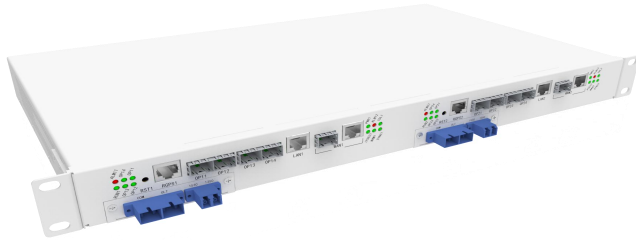commercial residential buildings

urban villages

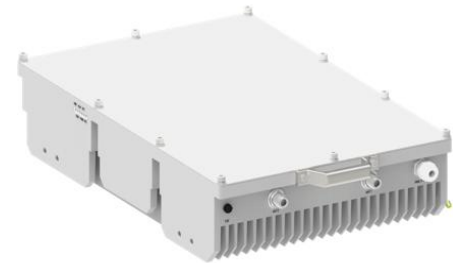underground parking lots

remote large villages

Product Introduction

4G BBU

5G BBU

250mW RU

5W RU

40W RU