FiberHome

Wireless Solution and Portfolio

CATALOGUE

2026

Integrated Base Station Solution

INTRODUCTION

Integrated base station solution is mainly used to solve scenarios such as medium-population communities, rural and suburban areas, highways with cost-effective outdoor and indoor 4G/5G network coverage expansion and hot-spot performance enhancement. With highly integrated product design and less requirement for installation, integrated base station solution can provide flexible deployment and extreme low CAPEX and OEPX for operators.

SCENARIO

Community

Office

Suburban

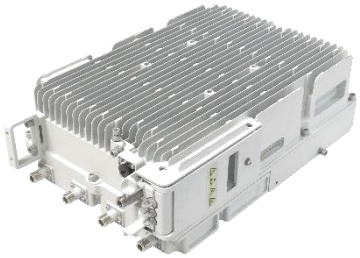
Highway

PRODUCT

2T2R Series

- Integrated baseband and RF module design
- Support 5G/LTE mode
- Output power: 2 * 100W (NR 100MHz)
  2 * 60W (NR/LTE 20MHz)
- Support backhaul cascading

4T4R Series



- Integrated baseband and RF module design
- Support 5G/LTE mode
- Output power: 4 * 50W (NR 100MHz, LTR 20MHz)
- Support 2 * 2T2R splitting
- Support backhaul cascading

FEATURES

✓ High integration

Baseband and RF in one box, smaller and lighter than macro sites deployment, easy to install

✓ High performance and capacity

Support 5G NR 100MHz * 4T4R high performance

400 active users per cell

✓ Flexible deployment

Support S1/S11/S111 sector and cell-splitting

Support backhaul cascading

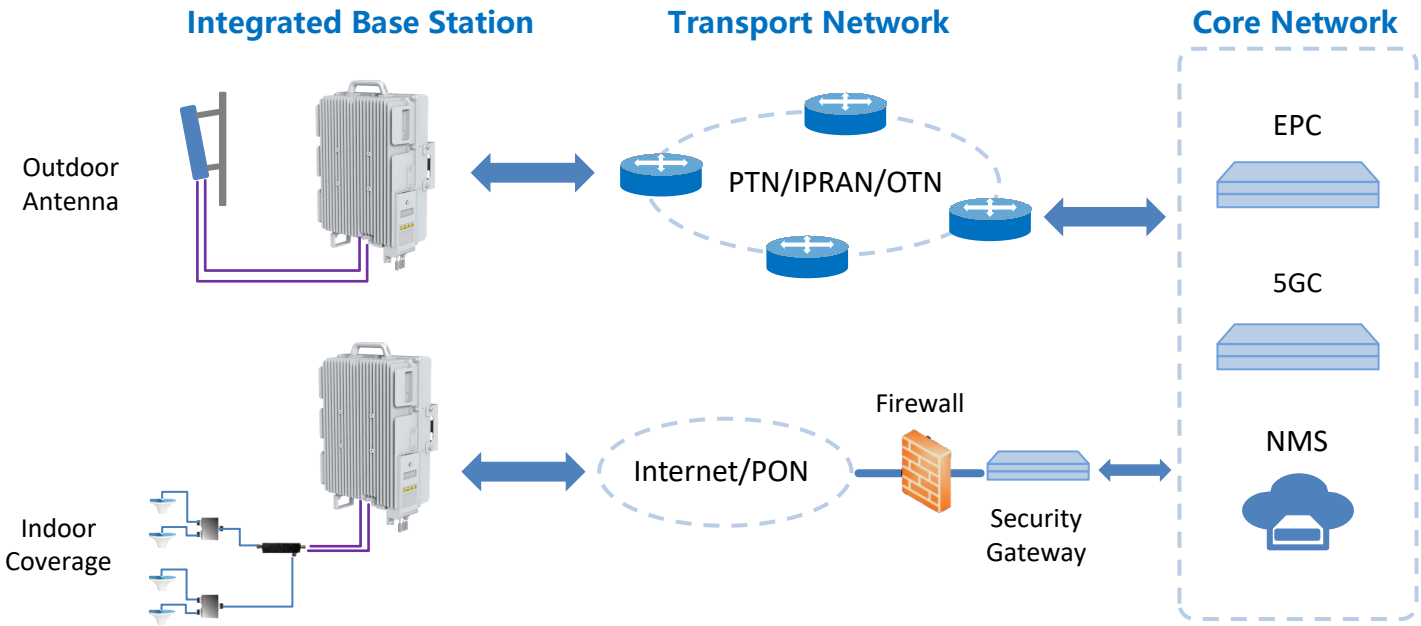
✓ Low cost

One tower, 5G and 4G one-stop construction

No need for BBU cabinet

Integrated Base Station Solution

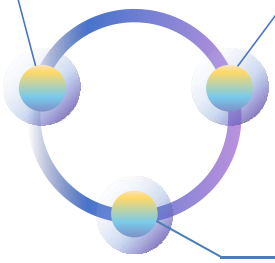
DEPLOYMENT TOPOLOGY



KEY VALUE

Basic Value

- **One-stop construction for 4&5G**
- **Cell-splitting for more coverage**



OPEX Saving

- **Low tower cost**
- **Low energy consumption**
- **Low installation cost**

Revenue Increased

- **Fast TTM**
- **Enough performance**

PILOT CASE

Introduction

Brazil, high-tower macro site, two-sectors, deployed with N40 (2.3G) 4G (20MHz) + 5G (50MHz) dual mode integrated base stations.

Site

- ✓ 5G Download speed > 500Mbps
- ✓ 4G Download speed > 125Mbps
- ✓ Inter-vendor site mobility: handover 100% successful

Active DAS solution

INTRODUCTION

The MSDAS (multi-service ADAS) is a digital optical fiber distributed system that supports multiple operators, multiple bands and multiple modes, which is a low-cost and high return signal coverage solution. The system adopts a four-tier architecture, consisting of APOI+MU+EU+RU, to achieve end-to-end monitoring and simple construction active coverage solution. Support multiple coverage scenarios such as shopping malls, office buildings, tunnels and etc..

SCENARIO

Medium Stadium

Commercial Center

Office Building

Residential Area

PRODUCT

APOI Unit

- Base station source signal combining by RF port
- Support 2 operators * 100M 4T4R @ 5G NR 3.5G band
- Support 4 operators * 20M 2T2R @ LTE band
- Flexible attenuation adjustment

Master Unit

- RF Signal to Optical Signal
- Support 5G NR 3 * 100M 4T4R
- Support LTE 4 * 20M 2T2R
- Support flexible networking

Extension Unit

- Optical signal distribution
- Support 4-level EU cascading (chain link)
- Support 12 RUs (star link)
- Support 5G/4G multimode

Remote Unit

- Optical signal to RF signal
- Support up to 12 channels (NR 4T4R + 4band * LTE 2T2R)
- Output power: up to 27dBm/channel
- Support internal/external antennas

FEATURES

✓ Cost Down

Support multi-operators and multi-modes sharing

No software updating fee, easy deployment

✓ Energy saving

Deep sleep mode in specified time duration

Close the idle bands channel and carriers

✓ Networking capability

Support star and chain topology, up to 192 RUs

Transmission distance from MU to RU reaches 20Km

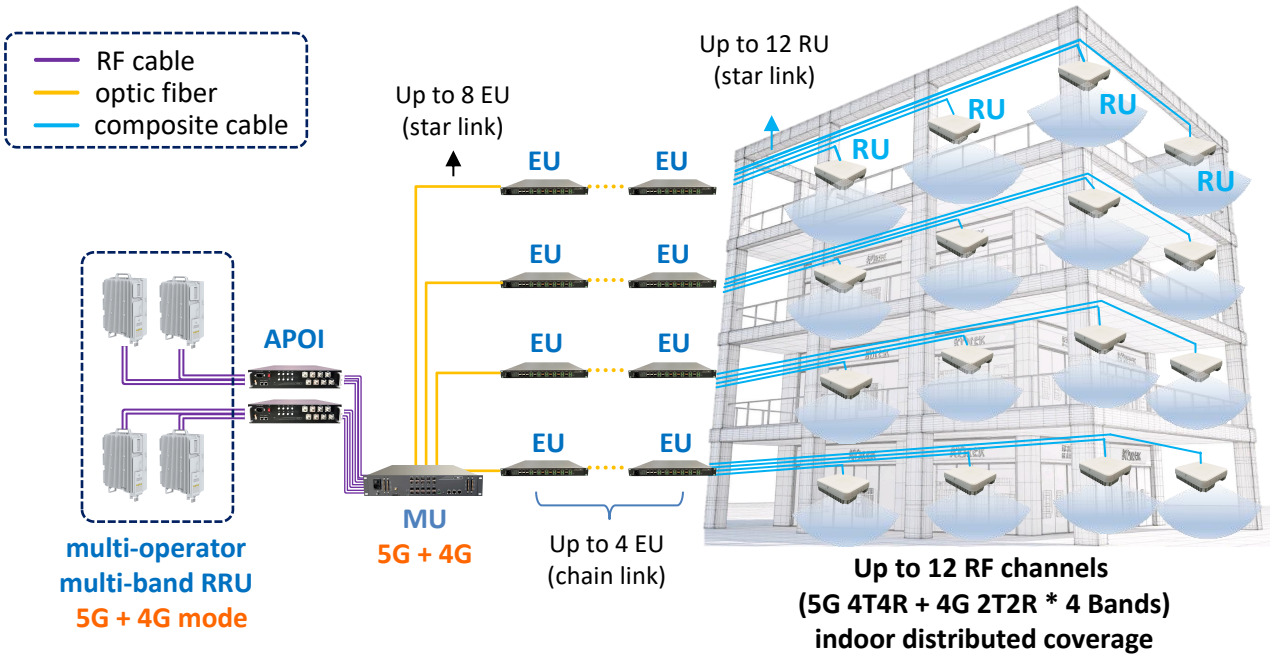
✓ Monitoring capability

Automatically number, topology, time delay calibration

PC, APP and WIFI access management equipment

Active DAS solution

DEPLOYMENT TOPOLOGY



KEY VALUE

High Performance

- NR 4T4R / LTE 2T2R MIMO
- Up to 27dBm output power

Convenient Management

- End-to-end remote management
- Unified NMS system for various indoor solutions

Flexible Networking

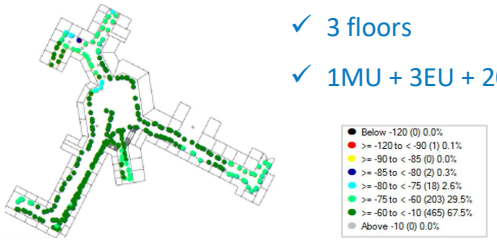
- Star-chain hybrid topology
- Support cell splitting and expansion

PILOT CASE

Introduction

Southeast Asia, shopping center, 3 floor shopping area 9,700 m². This pilot uses MSDAS system to provide multi-band multi-operator indoor coverage co-construction.

Coverage



- ✓ 3 floors
- ✓ 1MU + 3EU + 20RU

Conclusions

- ✓ Support multi-operators and multi-modes
- ✓ Better indoor wireless coverage performance

Test Result

- ✓ NR DL data rate: >400Mbps, >90% source base station performance
- ✓ RX Level (≥-60dBm): improved from 45.9% to 67.5%
- ✓ RX Qual (0-4): improved from 98.9% to 99.5%

Fiber Optic Repeater Solution

INTRODUCTION

Fiber optic repeater solution is an efficient wireless communication relay technique that utilize optical fiber as signal transmission medium to extend and amplify base station signals. The solution adopts two-level architecture: MU (Main Unit) and RU (Remote Unit), which are connected through fiber optics. It can provide extra cost-effective signal coverage to solve both indoor and outdoor blind-spot or weak coverage issues in various scenarios.

SCENARIO

Sports Center

Shopping Mall

Residential Area

Underground Parking Lot

PRODUCT

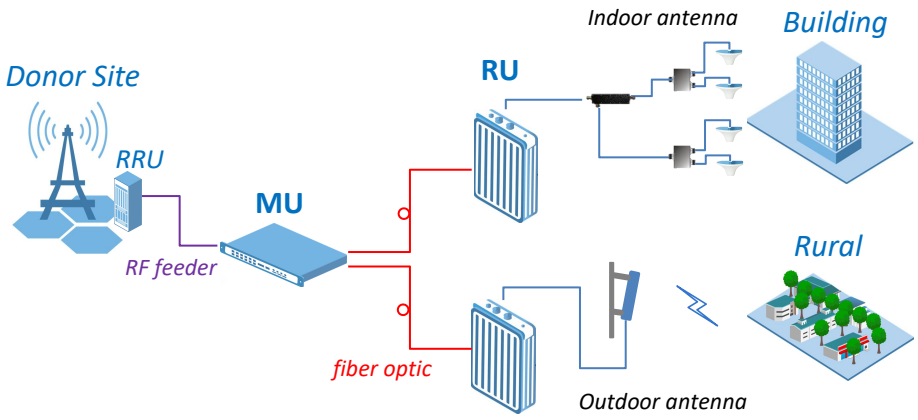
Master Unit

- Compact design (1U chassis)
- Support GSM/WCDMA/LTE/NR mode
- Signal/Multiple RF bands
- Support 4 fiber optic links to RU

Remote Unit

- Output Power: 1T1R/2T2R * 20W/40W
- IP65 protection for outdoor use
- Support wall/pole mounting
- Support star/chain network topology

DEPLOYMENT & BENEFITS



Benefits

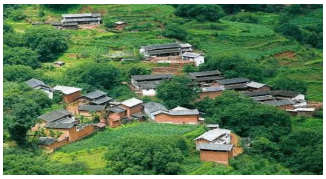
- ✓ Stable Connection
  RF feed coupling
- ✓ Efficient Coverage
  High output power
- ✓ Flexible Deployment
  Long optical distance
- ✓ Low Cost
  Less need for macro RRU

Wireless Repeater Solution

INTRODUCTION

Wireless repeater solution is aimed to provide bidirectional (both downlink and uplink) wireless signal amplifying via air interface, where signal coupling through feeder line is not applicable and fiber optic cabling is difficult to deploy. With a single repeater equipment and donor/service antenna, wireless repeater solution can easily fill coverage gaps in specific indoor spots like basements and elevators, or expand coverage radius of macro base stations in remote areas.

SCENARIO



Rural/Mountain Area

Scenic Resort

Restaurants

Elevator

PRODUCT

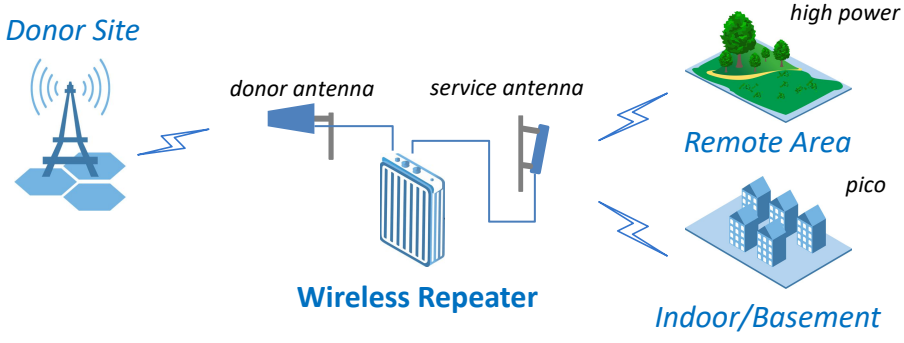
High Power Series

- Support single/dual/tri band, 2G/3G/4G/5G mode
- Output Power (typical): 10W/20W per band
- IP65 protection for outdoor use
- Support remote management (through wireless modem)
- Support ICS function (Interference Cancellation System)

Pico Series

- Support single/dual/tri band, 2G/3G/4G/5G mode
- Output power (typical): 17~20dBm per band
- Support multi-subband configuration
- Compact design, convenient to install
- Support ICS function (Interference Cancellation System)

DEPLOYMENT & FEATURES



Benefits

- ✓ Simple and Quick Installation
  Over-the-Air coupling
- ✓ Less Interference Risk
  AGC/ICS available
- ✓ Flexible Deployment
  Multi-band/Sub-band

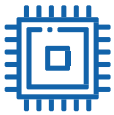
Why FiberHome

Price

- Competitive pricing
- Flexible customizations and license policy helps reducing TCO

Reliability

- One of the founder of 3G standard
- Rich experience more than 20 years



Technology

- E2E solutions
- Rich Family for wireless solution
- 1400+ 5G key patents
- Pre-Research of 6G

Delivery

- There are local delivery teams the global
- Southeast Asia, Latin American and etc

FiberHome

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2026

Your reliable partner to brighten the future network