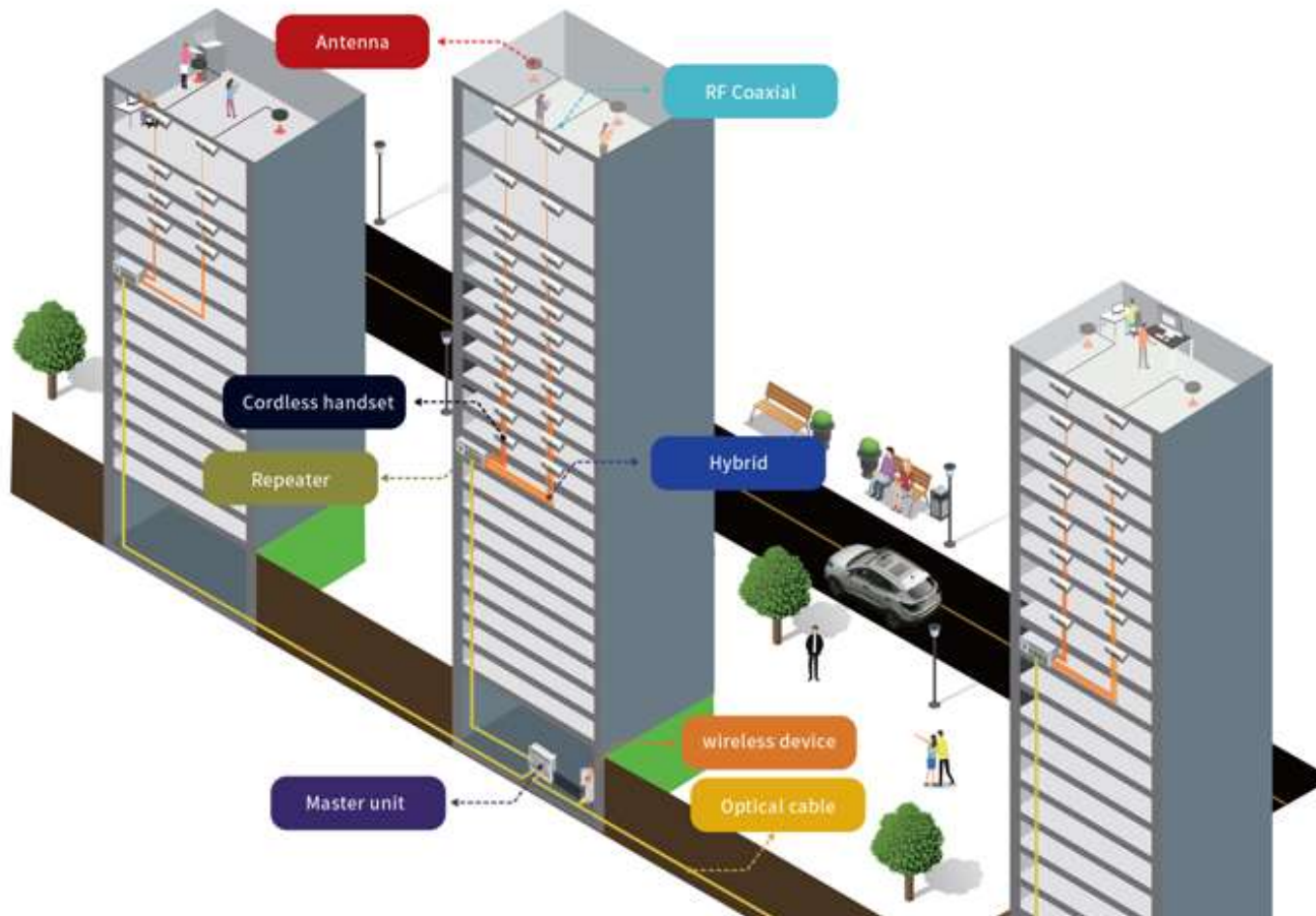

Dual Band DAS

(Distributed Antenna System)

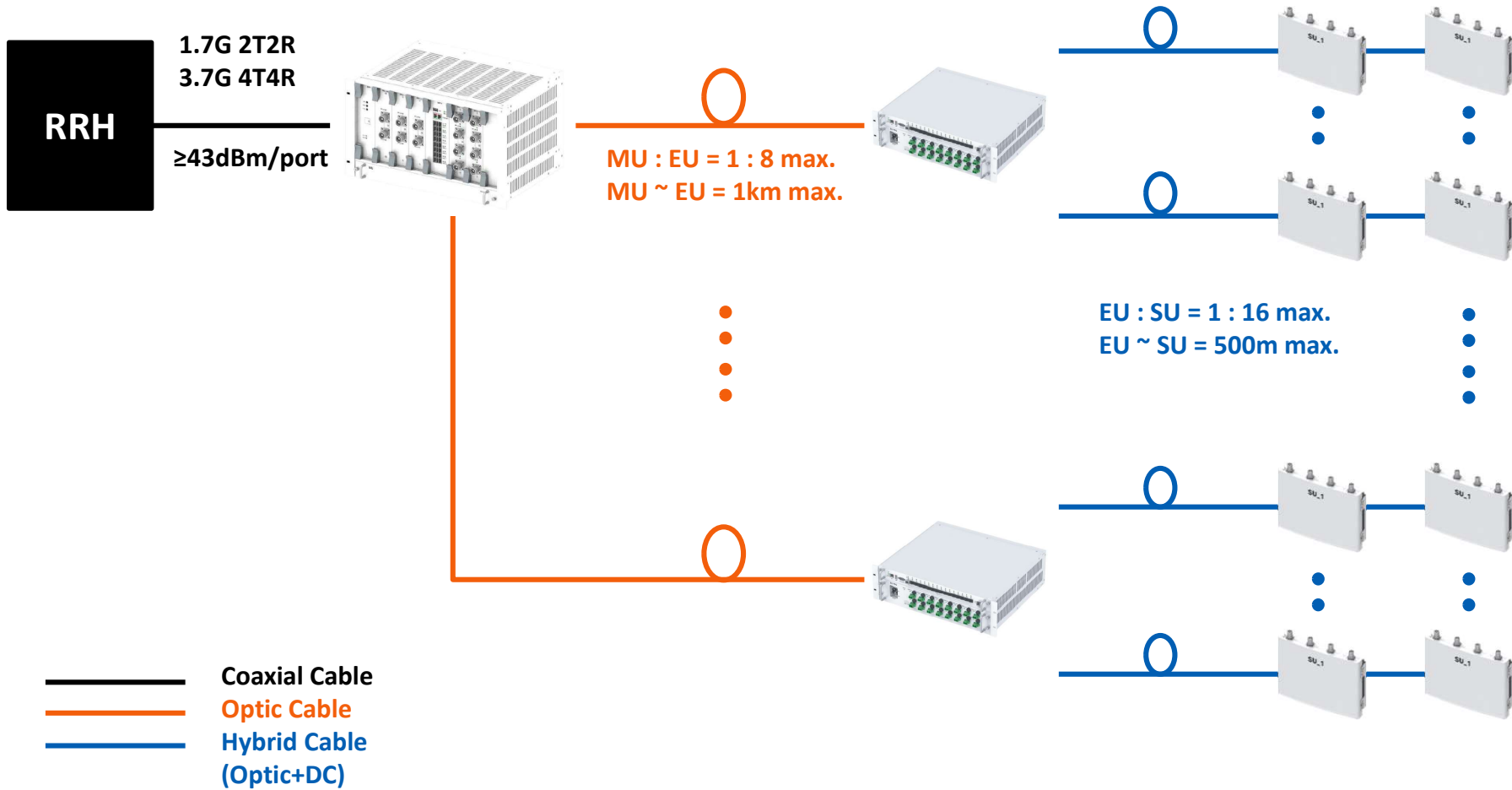
Dual Band DAS (1.7GHz+3.7GHz)

■ TOPOLOGY



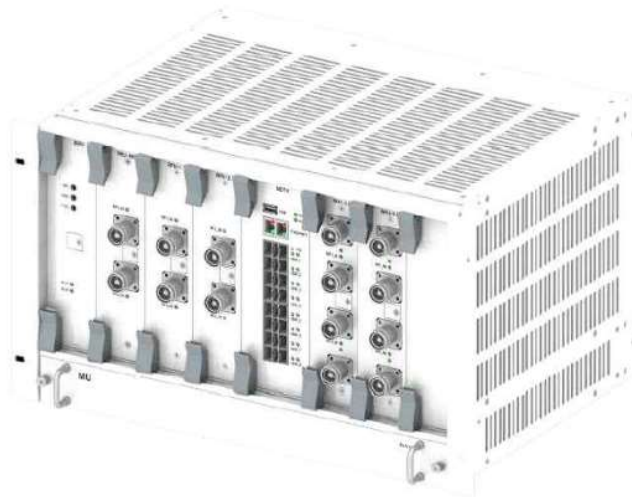
Dual Band DAS (1.7GHz+3.7GHz)

System configuration



Dual Band DAS (1.7GHz+3.7GHz)

MU (Master Unit)



Specifications

MU	Specification
Dimension	W*D*H=482.6*250*266 mm
Weight	≤20kg
Cooling	Fan
Operating Temperature	-10 ~ +55° C
Relative humidity	0% ~ 90%
Mount type	Rack or Wall mount
RF connector	Mini-DIN 4.3-10 (female)
Type of Power Supply	DC-DC convertor (DC -48V in)
Local monitoring	RJ-45
Power consumption	≤90W

Features

- Accommodates 8 inputs
- RF/Optic conversion & detect TDD-Sync Info
- **Energy Harvesting & Power Conversion (MHVU)**
- **Manage DC Power and Battery (MBMU)**

Dual Band DAS (1.7GHz+3.7GHz)

EU (Extend Unit)



Specifications

MU	Specification
Dimension	W*D*H=482.6*410*133 mm
Weight	≤16kg
Cooling	Fan
Operating Temperature	-10 ~ +60°C
Relative humidity	0% ~ 90%
Mount type	Rack or Wall mount
RF connector	Mini-DIN 4.3-10 (female)
Type of Power Supply	AC-DC power supply (AC110V in) DC -48V
Local monitoring	RJ-45
Power consumption	≤75W

Features

- Hub between MU and SU
- SFP 16 ports (25Gbps) interfaces with Sus
- Optical connection and communication between MU and SUs (EDTU)
- Converts AC Input into DC -48V, and supply to SUs (EPSU)

Dual Band DAS (1.7GHz+3.7GHz)

■ SU (Service Unit)



■ Specifications

MU	Specification
Dimension	W*D*H=355*257*73 mm
Weight	≤6kg
Cooling	Convection
Operating Temperature	-10 ~ +60° C
Relative humidity	0% ~ 95%
Mount type	Wall mount /Ceiling mount /Suspension bolt
RF connector	Mini-DIN 4.3-10 (female)
Type of Power Supply	DC-DC convertor (DC -48V in)
Local monitoring	RJ-45
Power consumption	≤83W

■ Features

- Supports 1.7G&3.7G Multi-band
- 2T2R Max. Power 27dBm
4T4R Max. Power 27dBm
- RF Signal Processing per Frequency (SRFU)
- RF-Optic Conversion, TDD Sync,
SU Cascade Connection (SDTU)

Dual Band DAS (1.7GHz+3.7GHz)

■ System Features

Multi-frequency band configuration

- 1.7GHz@ FDD
- 3.7GHz@TDD

Built-in POI

- High-power attenuating device inside the Master Unit
- Backup DC power source using high power energy harvesting
- Reduce heating issue of the site

UNC (Uplink Noise Cancellation)

- Minimize base station noise by eliminating noise generated by multiple SUs
- Optimized filtering algorithm for noise cancellation

System configuration

- MU: EU: SU = 1: 8: 128

Low latency design

- Reduced system delay for more TDD coverage
- Optimized design of the delay of channel filter & pre-distortion algorithm

Demodulation

- TDD sync directly from downlink RF input

Dual Band DAS (1.7GHz+3.7GHz)

System Specifications

Item	Link	Specification
Frequency Range	UL /DL	1.7GHz, 3.7GHz,
Survive Unit TYPE		1.7GHz+3.7GHz @SU TYPE1
Max Output Power	DL UL	+23dBm/port @1.7GHz +24dBm/port @3.7GHz 0 dBm/port
System Gain	DL	23dB @1.7GHz, 24dB 3.7GHz
	UL	27dB max.
Delay	UL /DL	≤6usec
SEM	DL	3GPP TS 38.104 compliant
Spurious Emission	DL	3GPP TS 38.104 compliant
EVM	DL	≤3% @256QAM
ACLR	DL	≥40 dB
VSWR	UL	≤1.5:1
Noise Figure	UL	≤6dB
System Configuration		MU:EU:SU=1:8:128
SFP		10Gbps