

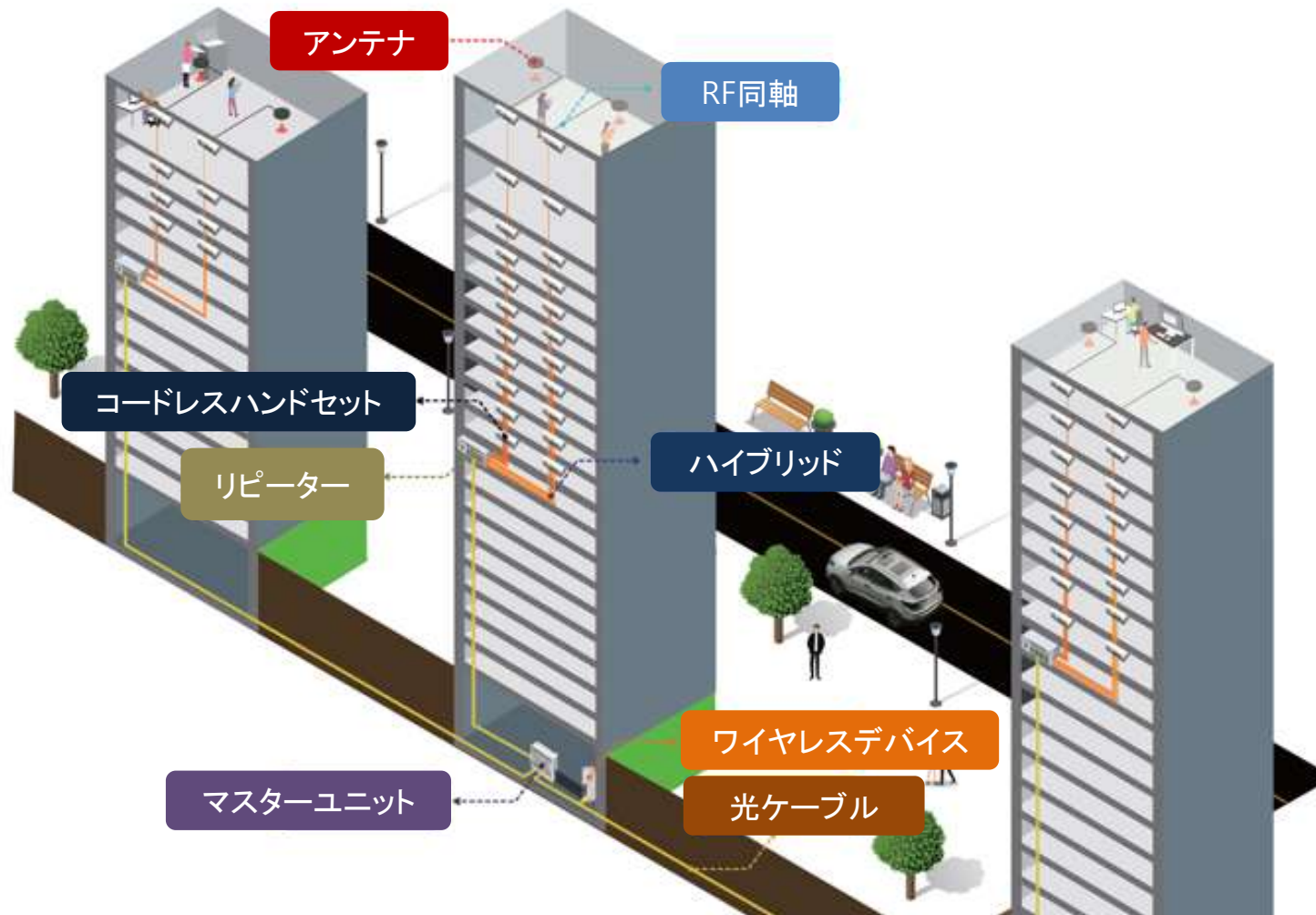
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# Dual Band DAS

(Distributed Antenna System)

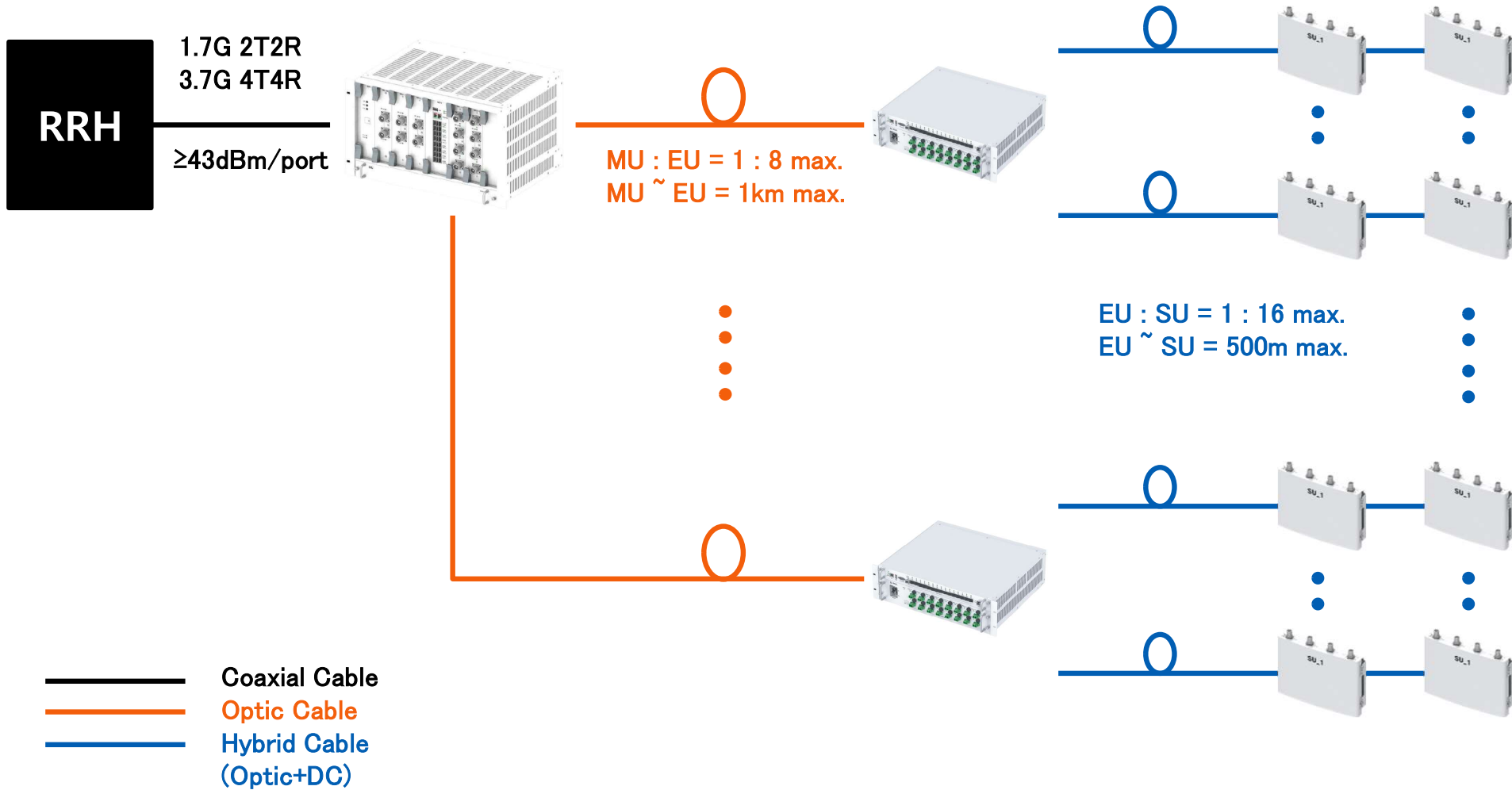
# Dual Band DAS (1.7GHz+3.7GHz)

## ■ 設置図



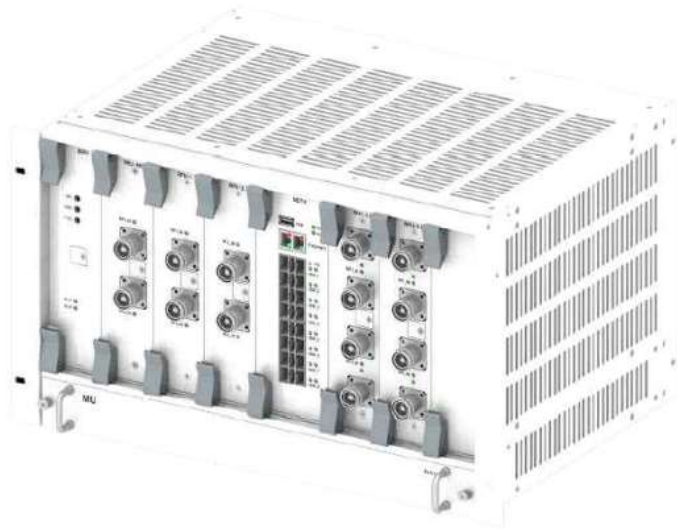
# Dual Band DAS (1.7GHz+3.7GHz)

## ■ システム構成



# Dual Band DAS (1.7GHz+3.7GHz)

## ■ MU (Master Unit) 外觀



## ■ 規格

| 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                         |

## ■ 特徴

- 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) 外觀



## ■ 規格

| 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                           |

## ■ 特徴

- 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) 外觀



## ■ 規格

| 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<br>/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  |

## ■ 特徴

- 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)

## ■ システム特徴

### 複数の周波数帯域の設定

- ・ 1.7GHz@ FDD
- ・ 3.7GHz@TDD

### 内蔵POI

- ・ マスターユニット内の高出力減衰装置
- ・ ハイパワーエネルギーハーベスティングを使用したバックアップDC電源
- ・ 現場の暖房の問題の減少

### UNC(アップリンクノイズ除去)

- ・ 複数のSUから発生するノイズを除去し基地局のノイズ最小化
- ・ ノイズ除去の最適化フィルタリングアルゴリズム搭載

### システム設定

- ・ MU:EU:SU=1:8:128

### 低遅延設計

- ・ より多くのTDDの適用範囲でシステムの遅延減少
- ・ チャンネルフィルター遅延とプリディストーションアルゴリズムの最適化された設計

### 復調

- ・ ダウンリンクRF入力から直接TDD同期化

# Dual Band DAS (1.7GHz+3.7GHz)

## ■ システム規格

| Item                 | Link     | Specification  |
|----------------------|----------|--|
| Frequency Range      | UL /DL   | 1.7GHz, 3.7GHz,  |
| Service Unit TYPE    |          | 1.7GHz+3.7GHz @SU TYPE1                                  |
| Max Output Power     | DL<br>UL | +23dBm/port @1.7GHz<br>+24dBm/port @3.7GHz<br>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   |