



Comba



Coverage Today,  
Capacity Tomorrow!™

# ComFlex NG

## Distributed Antenna System

The ComFlex NG series Distributed Antenna System is the Next Generation of Comba Analog DAS & Signal Booster.

### SYSTEM FEATURES



#### Cellular Growth

- Multi-band, Multi-Operator
- Supports 4G and 5G
- Full IBW TDD in BRS and C-Band



#### Commissioning & Maintenance

- BDA Self-Commissioning and automatic antenna calibration
- Web based GUI for intelligent POI configuration
- SNMP alarm notifications for network management



#### Flexible

- Modularized Master Unit
- Off-Air BDA for instant coverage
- POI cards to enable system capacity
- Simplex or Duplex POI



#### Economical

- Integrated RF & Optical Master Unit with power of coaxial Active Antenna Unit reduces overall cost of installation and ownership



#### Simple Design

- Active antenna solution standardizes indoor propagation planning
- Power over coax to the active antenna uncomplacates cable routing



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## Delivering Coverage and Capacity Growth

The ComFlex NG series Distributed Antenna System is the Next Generation of Comba Analog DAS & Signal Booster. This is an RF over fiber to RF + Power over coaxial cable solution that enhances a wireless network's coverage by extending cellular services from existing cell sites to an indoor environment. The primary function of a DAS or signal booster is to enhance the signal strength for cellular devices. This results in fewer dropped calls, better call quality, and improved data speeds. A stronger and more stable signal leads to faster data speeds for mobile internet, allowing for quicker downloads, smoother streaming, and better overall online experience.

The system consists of the Master Unit, MRU/HRU HUB and Active (Antenna) Remote Unit. The MU includes the Chassis with an integrated power supply, Fiber Optical Unit and RF Units consisting of BDA Cards and POI cards. With a modular design, it can support up to 32 independent RF inputs, 8 HUBs, and 128 ARU. The ARU is designed with a compact and slim form factor for easy installation; it is an integrated design which supports 6 independent bands (or 16 MRU/HRUs, LTE 700, CELL 850, PCS 1900, AWS 2100, BRS 2500 TDD, and C-Band 3700 TDD).

This solution is an effective point-to-multipoint distributed antenna system that provides effective coverage enhancement. The Comba DAS offers service providers an optimal solution for multiple applications from a single building to a campus, apartment complex, office building, warehouse, or more! This is the perfect single sector solution for up to 750,000 square feet or multi-sector solution for a campus environment.

The ComFlex NG can be installed as a Part 20 Consumer or Industrial DAS. When installed as Part 20 Consumer, you can turn signal on over-the-air in your building immediately.



In the future convert to industrial and connect a signal source when a signal source becomes available. This hybrid solution is perfect for enterprise applications!

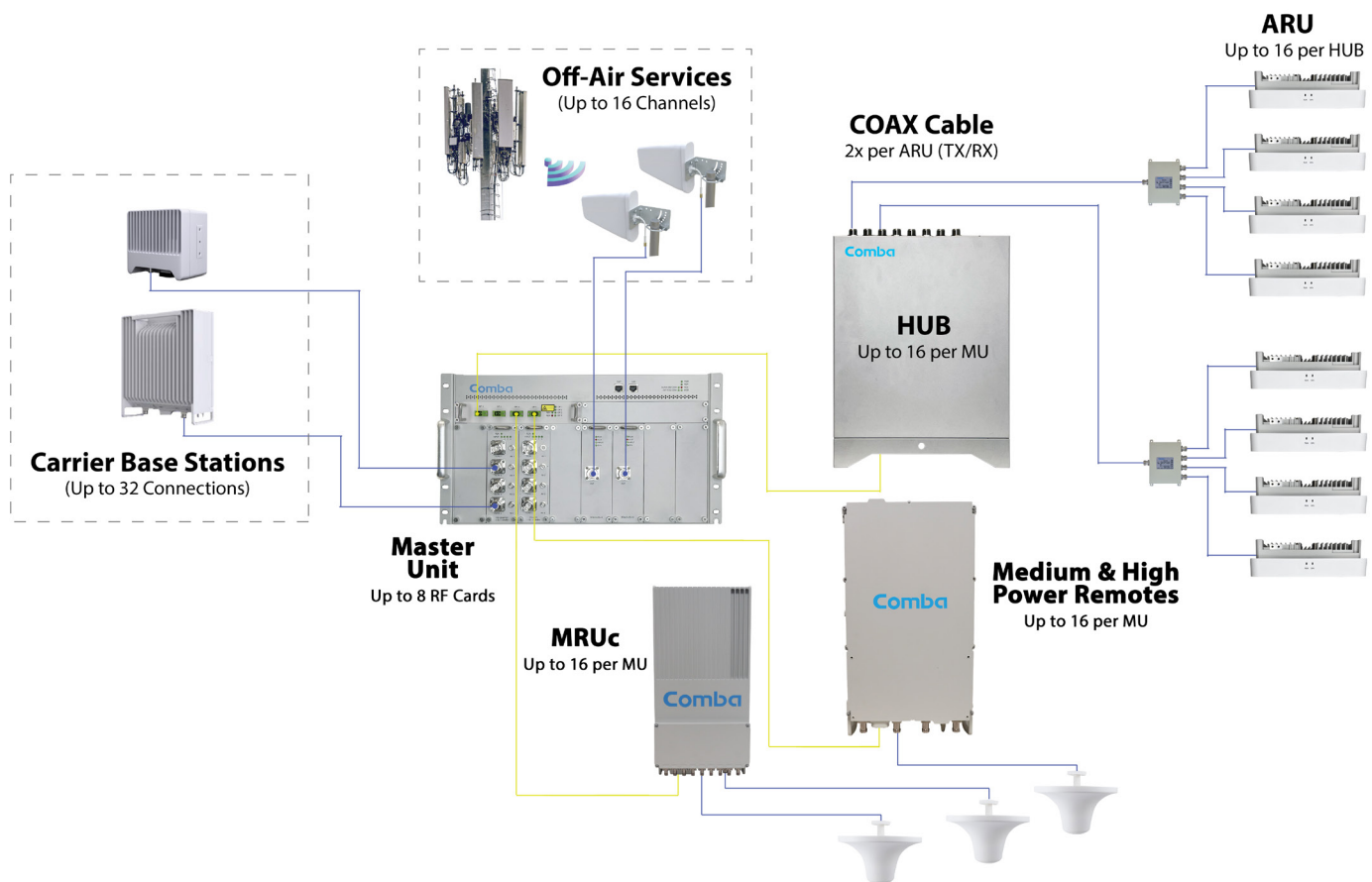


## System Description

The ComFlex NG cellular DAS consists of the below components:

- **Master Unit (MU)** is located in the Enterprise MDF or centralized location of a campus, providing a single point for commissioning and maintenance. MU will combine the RF input signals and distribute them across the building or campus.
- **HUB** are distributed across floors or buildings via single mode Fiber. The Hub distributes the RF signals from all operators and power to the Active Remote Unit.
- The Master Unit is installed with RF and Fiber modules to enable cellular connectivity from the RF source to the remote units.
  - The **Bi-Directional Amplifier (BDA)** modules each boost two over the air signals within FCC Part 20 compliance.
  - **Point Of Interface (POI)** cards condition signals from base transceiver station (BTS) interfaces from +10dBm to +37dBm.
  - The **Fiber Optic Unit (FOU)** enables RF and communications between the MU and HUBs.
  - **Master Control Unit (MCU)** allows local and remote access for maintenance.
- Remote Units
  - The **Active Remote Unit (ARU)** supports 6 independent bands and all Operators.
  - Please contact your sales representative to get information on the **Medium and High Power Remote Unit** ComFlex NG solutions.
- Comba's **Coax, Splitters, Couplers, and Donor Antennas** are available to complete any passive installation necessary for the ComFlex NG product line.

## Functional Block Diagram



# Commercial Wireless Solutions

Comba Telecom Inc., based in Milipitas, CA, is a leading supplier of RF communications solutions and equipment to the wireless industry. With R&D originating in the heart of Silicon Valley and a manufacturing base in Asia, Comba Telecom manufactures cutting edge technologies and cost-effective solutions for OEM, integration and operator partners.

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