COMFLEX DAS SOLUTION

Award-winning Multi technology Higher capacity





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The need for a distributed antenna system (DAS)

As data traffic continues to grow rapidly, an effective DAS solution is essential to urban commuters' smartphone use, particularly in large venues and busy transports.

Comba's ComFlex DAS solution is a point-to-multipoint distributed antenna system that provides effective coverage enhancement. It offers service providers an optimal solution for multiple applications from a single building to a campus, mega mall, or sports arena and beyond.



The award-winning DAS solution with flexibility in coverage & capacity

Comba's ComFlex solution won the **Technological Achievement Grand Award** at the 2016 Hong Kong Awards for Industries. This winning solution is structured with modular design to support multiple operators and multiple technologies on all commonly deployed EUTRA bands in the global market.

ComFlex DAS has been deployed for metros, stadiums, hospitals, resorts in different global areas



2014 Brazil World Soccer Games

2016 Brazil Summer Games



2014 Sochi Winter Games

Furasia Tunnel

Major international airports

Grand Hyatt Hotel, Rio de Janeiro

Hong Kong MTR South Island Line





This is also the best wireless technology option for tunnels and fast-moving trains.



科技成就大獎 TECHNOLOGICAL ACHIEVEMENT GRAND AWARD

Eurasia Tunnel





ComFlex DAS ensures stable connectivity for EurAsia Tunnel

The EurAsia Tunnel is a 5.4km double-decked tunnel connecting Kazlıçeşme from the European part of Istanbul to Göztepe, the Asian part via a 14.6km route, crossing the seabed beneath the Bosphorus strait. The DAS solution manages multi-operator and multi-technology network that supports GSM, UMTS, LTE systems by supplying ACU, OCU, RUs to boost coverage and support seamless user experience.



Comprehensive multi-band, multi-system Wireless networks with high capacity

ComFlex DAS is an RF over fiber solution for enhancing a wireless network by extending and adding capacity from existing cell sites to an indoor environment.

Fiber network for RF signal transport between the master unit (MU) and remote unit (RU) is able to support long distance or long coverage area as required.

Modular Design supports highly flexible frequency band and Why redundancy configuration to adapt different ComFlex scenario and requirement especially in subway or railway tunnel. DAS? **Flexible System Architecture** supports daisy chain of multiple RU cluster for coverage extension. Patented High Power Efficient and Linear Amplifier Technologies supports multiple-technologies, multiple operators, signal amplification, as well as minimize the distortion of the original signal in high power application. **Robust Fanless Mechanical Design** endures weather extremely harsh environment.

Refined systems producing higher capacity with less space

Comba's modernized **Active Conditioning Unit** (ACU), **Master Unit** (MU) and **Remote Unit** (RU) all support field upgrade and independent gain control, while web base GUI is equipped for intelligent commissioning and configuration. Both the refined ACU and MU serials are designed with full operation bandwidth system compatible with multi-operators application.



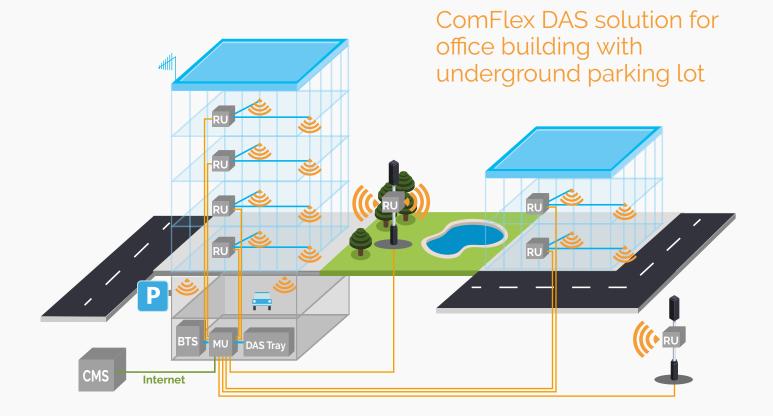








compatible with future 5G upgrades





ACU + Combiner + OCU

Supports

- up to 32 bands
- input power up to 100W



MU Supports up to 8 bands

Modular RU



Specifications

Bands/MHz

Instantaneous Bandwidth 18MHz ~ 90MHz
Supported Frequency 700, 800, 850, 90

ncy 700, 800, 850, 900, 1800, 1900, 2100, 2300, 2600, AWS

PIM to BTS	≤ -160dBc
System Delay	≤ 2 µs

Integrated RU (1W/5W/40W)



Enabling communications, anywhere, everywhere.

We listen and answer to your needs with our experience and capability in the industry



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Visit our website or contact our representative for more information.







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