



AllAccess



Telecom Division

# All-in-One In-Building Wireless Solution





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## ALLACCESS - ALL-IN-ONE IN-BUILDING WIRELESS SOLUTION

AllAccess is Mer Group Telecom Division's innovative Distributed Antenna System (DAS) for enhanced in-building wireless coverage. The unique AllAccess system integrates advanced RF, multiplexing, and optical technologies, delivering unparalleled quality-of-experience and cost-efficient converged multi-service, multi-operator access. The AllAccess DAS is versatile, easy to operate, and ready to support tomorrow's wireless services and applications.

The AllAccess platform is supported by the breakthrough OTDMML technology. The Optical Time Division Multiplexing by Locking Lasers (OTDMML) is a patented, analog multiplexing technique which is suitable for multiplexing different types of analog signals, digitally modulated analog signals, or even data signals. OTDMML's technology-agnostic approach significantly simplifies project design which results in dramatically reduced total cost of ownership (TCO) and accelerated return on investment (ROI) while protecting the environment, thanks to decreased power consumption and cable radiation levels.

AllAccess employs OTDMML technology to provide two distinct levels of multiplexing. It serves as a generic WDM multiplexer for different types of RF signals enabling various cellular technologies with different frequencies and WiFi offloading. In addition, AllAccess combines multiple services on a single wavelength, allowing the delivery of four times as many channels on a single fiber.

### Cellular Operator and Enterprise Benefits

#### Buy One. Pay for One. Get All.

Converged In-building wireless solution eliminates multi-box complexity and cost

#### Improved ROI

Multi-service, multi-operator and multiple RF bands in a single system

#### Lower Cost of Ownership

Slash CAPEX and OPEX with increased flexibility, greater coverage and more antennas per system

#### Simplified Operations

Reduced complexity and carrier class management, easy installation and maintenance

#### Protect your Investment

Future-proof, technology-agnostic solution.  
4G/LTE ready

#### Always On. Everywhere

Robust innovative optical solution with end-to-end management provides highest quality of experience

The AllAccess wideband system supports any wireless service and RF band from 100 MHz to 6 GHz. It is comprised of three main subsystems: the AllAccess root unit, the AllAccess branch unit and the OptimOS Management System.

## ALLACCESS ROOT UNIT

The root unit integrates multi-band RF interfaces, multiplexing, fiber optic interfaces, and a management subsystem. It combines RF signals from multiple operators and up to four RF bands into a single bi-directional optical fiber. Positioned in a central location, the root unit can be connected to eight branch units in a point-to-multipoint star topology.



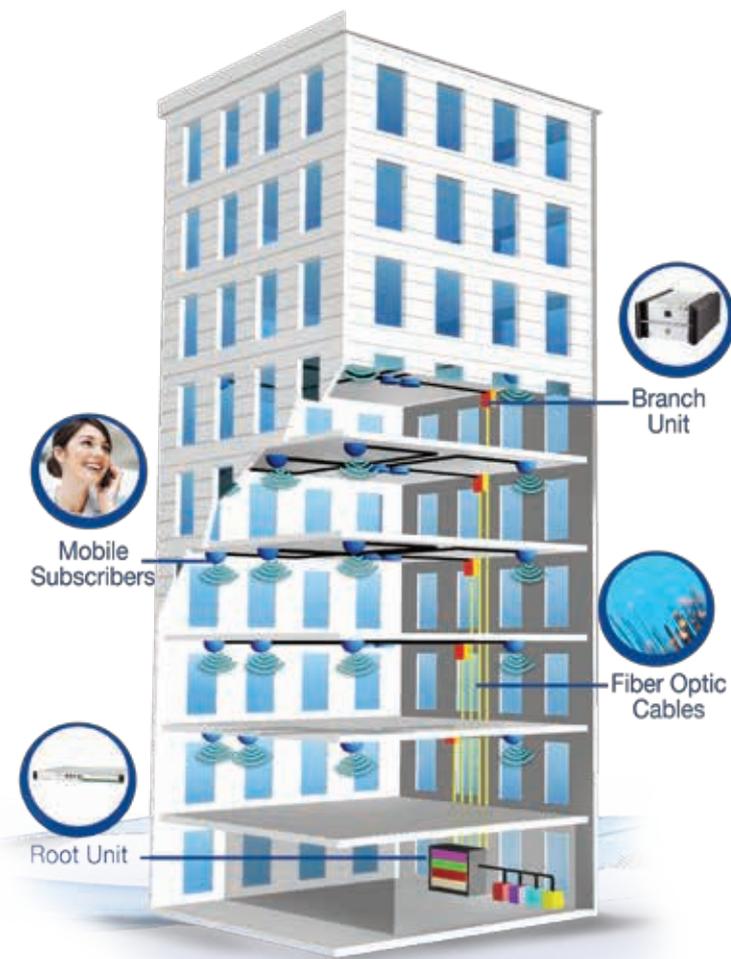
## ALLACCESS BRANCH UNIT

The branch unit receives RF-over-fiber optic signals from the root unit, converts it to RF and transmits it over coax to the connected antennas. With a high RF output power ranging from 20 to 40 dBm supporting four RF bands, the unit is able to cover a large area comprised of up to 20 concatenated antennas using a single coax cable, thus reducing project complexity.



## OPTIMOS MANAGEMENT SYSTEM

The Element Management System (EMS) provides a comprehensive carrier class end-to-end solution for provisioning, maintenance and performance monitoring. The management subsystem is integrated in the root unit and all the branch units facilitating both local (Ethernet) and remote (Internet or Cellular) management. The EMS supports SNMP MIBS for integration into a central, 3rd party management solution, as well as SMS notifications.





	Root Unit	Branch Unit
<b>RF Specifications</b>		
Supported Bands* (MHz)	100, 400, 800, 850, 900, 1800, 1900, 2100, 2600, 3500, 4900, 5800	
Supported Services	CDMA, iDEN™/ TETRA™, E-GSM, P-GSM, GSM, UMTS, HSPA, LTE	
Max. RF Input Power	+30 dBm	
Max. RF Output Power*	NA	+10, +15, +20, +30, +33, +37, +40, +43 dBm per each RF band
<b>Interfaces</b>		
Number of RF Interfaces*	1, 2, 3, 4 (ordering option)	1
RF Connectors	N-type female (Ant/UL, DL), per technology	N-type female
Number of Optical Interfaces	8	1
Optical Connector	SC/APC	
Management I/F	RS-232	RS-232
	10/100 BaseT	10/100 BaseT
<b>Optical Specification</b>		
Output Optical Power	3 mW	3 mW
Maximum Optical Link Loss	2dBo*	
Wavelength - Downlink	1330 nm + 20 nm	
Wavelength - Uplink	1550 nm + 20 nm	
Fiber Type	SMF 28e	
<b>Mechanical Specifications</b>		
Size	443 x 483 (19") x 132 (1U)	
Weight	< 10kg	15kg
Mounting Options	19" Rack mount	Wall mount
<b>Power Specifications</b>		
DC Power	-36 to -60 VDC; -48VDC Typical (Optional 18 - 36 VDC)	
AC Power	88 to 246 VAC	
Maximum Power Consumption	70 W	
<b>Environmental</b>		
Operating Temperature	0° to 50° C	
Storage Temperature	-20° to 85° C	

\* Ordering Option

## About Mer Group

Established in 1948, the MER Group maintains a diversified portfolio of over a dozen subsidiaries focusing on three main sectors – telecom, security and cleantech – while investing in other areas including satellite communications, biotechnology and materials science. Publicly traded (TASE: CMER) since 1992, MER Group has a substantial global footprint with approximately 40 offices around the world employing close to 1400 people. For more information visit [www.mer-group.com](http://www.mer-group.com)

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