

ComFlex Series Distributed Antenna System

RA-7900-M Dualband Fibre Optics Repeater-Master Unit RA-7900-R Dualband Fibre Optics Repeater-Remote Unit

Features

- Supports 2100MHz (B1) and 1800MHz (B3) for NR and LTE.
- Supports field upgrade and remote upgrade.
- Small size and easy installation.
- Master unit supports 4 Remote Units directly, and Remote Unit can cascade up to 2 Maximum.

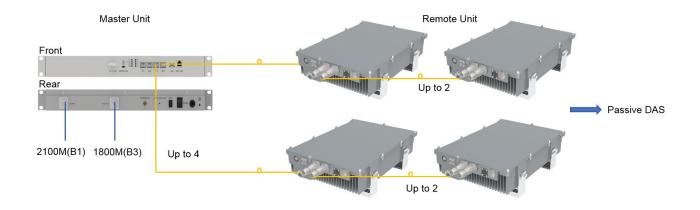
The Typical application is 6 Remote Units maximum for One MU on site.

- 60W(B1) + 60W (B3) Output power.
- Support automatic or manual time delay calibration to avoid co-channel interference.
- Support Local commissioning and Remote monitoring by CMS.





System Block Diagram





Specifications-Preliminary

Optical				
System		2100MHz (B1) and 1800MHz (B3)		
Optical Fiber		Single Mode		
Optical Wavelength	nm	1310 and 1550		
Optical Output Power	dBm	-5 to 0		
Data Rate	Gb/s	10.1376		
Transmission Distance	km	10		
Fiber Connectors		LC/UPC		

Electrical					
System		2100MHz (B1)	1800MHz (B3)		
SISO/MIMO			SISO	SISO	
Frequency Range	Uplink	- MHz	1920-1980	1710-1785	
	Downlink		2110-2170	1805-1880	
Operating Bandwidth		MHz	60	75	
Instantaneous Bandwidth		MHz	60	75	
Uplink Output Power		dBm	0	0	
Downlink Output Power		dBm	48	48	
Uplink Maximum Gain		dB	55	55	
Downlink Maximum Gain		dB	55	55	
ATT Adjustable Range (1dB step)		dB	Master Unit:0-20 Remote Unit: 0-15	Master Unit:0-20 Remote Unit: 0-15	
Pass Band Ripple (p-p)		dB	≤ 4	≤ 4	
Spurious Emission			3GPP TS 36.106 3GPP TS 38.106	3GPP TS 36.106 3GPP TS 38.106	
Uplink Noise Figure at Maximum Gain		dB	≤5	≤ 5	
System Delay		μsec	≤ 10	≤ 10	
Delay Adjustment Range		μѕес	≥ 100	≥ 100	
VSWR			≤1.5	≤1.5	
Absolute Maximum Uplink Input Power		dBm	-10	-10	
Absolute Maximum I	Absolute Maximum Downlink Input Power d		10	10	



MechanicalMaster Unit				
Dimensions, H x W x D	mm	440 x 220 x 44		
Weight (approx.)	kg	3.5		
Power Supply	VAC	100-240 / 50 ± 5Hz		
Power Consumption	W	45		
RF Connectors		N-Female x 2		
Operating Temperature	°C	-10 to +45		
Operating Humidity		≤ 85%		
IP Level		IP30		
Enclosure Cooling		Convection		
Installation Type		19" Rack		

MechanicalRemote Unit			
Dimensions, H x W x D	mm	510 x 350 x 103	
Weight (approx.)	kg	22	
Power Supply	VAC	100-240 / 50±5Hz	
Power Consumption (approx.)	W	480	
RF Connectors		4.3-10 Female x 1	
Operating Temperature	°C	-33 to +55	
Operating Humidity		≤ 95%	
IP Level		IP65	
Enclosure Cooling		Convection	
Installation Type		Wall/ Pole	