

Westell® | High Power DAS Platform



General Information

Westell's High Power distributed antenna system is a flexible platform, simultaneously capable of supporting different technology standards across multiple network operators' bands with various power configurations to address any venue.

With 43 dBm of radio power at each band, supporting 2 bands on each High Power Remote Unit, it is the most compact and power efficient product in the industry.

Product Highlights

- Active Distributed Antenna System
- Remote radio head technology
- Passively cooled outdoor compact enclosure
- Support in SISO & MIMO configurations
- Highly efficient PA performance
- GigE connectivity available for Wi-Fi & Small Cell
- 43dBm output power per band
- Integrated OMT

Frequency Range

- 600MHz - 2700MHz



High Power CF41 Series Remote Unit
CF41-R1-GH Model Shown

System Components

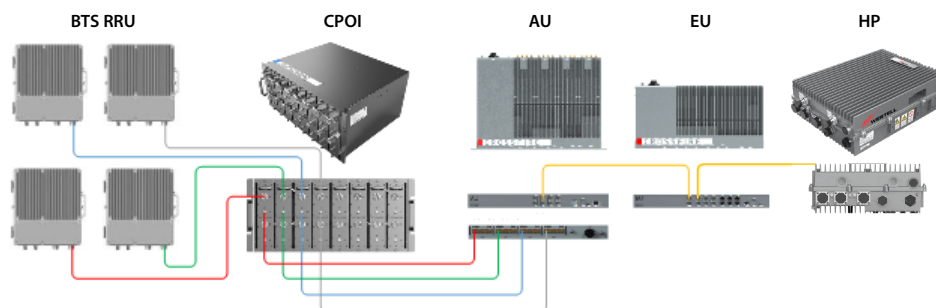


CF11 Series AU - Access Unit
CF11-AC-GHZZ Model Shown



CF24 Series EU-O
Optical Expansion Unit
CF24-AC-6SM Shown

Block Diagram



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Specifications



System	
Maximum RF Bands per Access Unit	4
Maximum RF Bands per Remote Unit	2
Maximum RF Bands per System	12
Maximum Access Units per System	3 (1 x Master / 2 x Slaves)
Maximum EUs per Master AU	8
Maximum EUs cascaded	5
Maximum RUs cascaded	6
Frequency Range (Non-Contiguous)	600MHz - 2700MHz
Bandwidth per Channel (Downlink & Uplink)	≤80MHz (Contiguous)
Digital Bandwidth per Channel (Downlink & Uplink)	20 / 30 / 40 / 60 / 80 MHz
Bandwidth per System (Downlink & Uplink)	≤280MHz (in each direction)
MIMO	2x2: 1 x RU 4x4: 2 x RU 8x8: 4 x RU
IP Transmission Rate per RU	1GB/s
Maximum IP Connections per EU	6
Maximum IP Connections per RU	1
System Delay Adjustment	Up to 80.00µs (automatic)
Forward Path (Downlink)	
Output Power per Carrier	Number of Carriers 1 2 4 8
	UMTS (dBm) 43 40 37 34
	LTE (dBm) 43 40 37 34
Maximum Gain	43 ± 3dB
Maximum Input Power	+15dBm
Error Vector Magnitude	<8.0% @ 64 QAM
Ripple	3dB Typical
Gain Control	45dB @ 1dB/step (AU:30dB, RU:15dB)
System Delay (AU+EU+RU)	12µS
VSWR	1.5:1
Reverse Path (Uplink)	
Maximum Output Power per Band	-7dBm
Maximum Gain	43 ± 3dB
Maximum Input Power	-35dBm
Ripple	3dB Typical
Gain Control	45dB @ 1dB/step (AU:30dB, RU:15dB)
System Delay (AU+EU+RU)	8µS
Noise Figure	4dB Typical @ Maximum Gain



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Specifications



Interfaces	
Antenna Interface (All bands)	4.3-10 Female
Access Unit RF Interface	QMA Female
Optical Connector Type	SFP+, Standard LC
Optical Rate	9.8304Gbps
Optical Fiber Length	1.4km / 10km / 30km 0.87mi / 6.21mi / 18.64mi
Physical Alarms	DB9, Female (4x in, 4x out)
Maintenance Interface	Ethernet RJ45 / USB
Electrical	
Electromagnetic Compatibility/Interference (EMC/EMI)	3GPP TS36.113 3GPP TS25.113
Maximum Power Consumption (AU/EU-O/RU)	80W / 50W / 250W
AC Power	100-240V AC, 50/60Hz
DC Power	±48v DC
Environmental	
Mean Time Between Failure (MTBF)	>100,000 hours
Operating Temperature (AU/EU)	-10°C to +50°C / 14°F to +122°F
Operating Temperature (RU)	-40°C to +50°C / -40°F to +122°F
Storage Temperature	-40°C to +70°C / -40°F to +158°F
Humidity	5% to 85% (Non-Condensing)
Cooling	Passive
Installation	AU/EU: Wall or 19" Rack RU: Wall or Pole
Ingress Protection Rating	AU/EU: IP30 (Indoor) RU: IP65 (Outdoor)
Mechanical	
AU (Width / Height / Depth / Weight)	440mm / 44mm / 329mm / 8.0kg 17.32in / 1.73in / 12.95in / 17.64lb
EU-E (Width / Height / Depth / Weight)	440mm / 44mm / 220mm / 5.0kg 17.32in / 1.73in / 8.66in / 11.02lb
EU-E PSU (Width / Height / Depth / Weight)	400mm / 125mm / 300mm / 16.0kg 15.75in / 4.92in / 11.81in / 35.27lb
RU (Width / Height / Depth / Weight)	400mm / 135mm / 300mm / 18.0kg 15.75in / 5.31in / 11.81in / 39.68lb
Element Management	
OMT (Operations and Maintenance Terminal)	Yes. Access via AU, EU or RU (Web Based)
LMS (Local Management System)	Yes (Ordered separately)
NMS (Network Management System)	Yes (Ordered separately)

