

DCS & WCDMA Dual Band Fiber Optic Repeater

Model: SZALO-D+W-AF-WB-MU-43-220AC-VN-RO

SZALO-D+W-AF-WB-RU-43-220AC-VN-RO

Main Features

- Support multiple bands at the same time. e.g., DCS1800+WCDMA2100
- Full operation bandwidth system supports multi-operator or multi-network application
- One MU supports up to four RUs



Remote Unit



Master Unit

Electrical Specifications

Frequency Range (MHz)	Uplink	1710-1785	1920-1980
	Dowlink	1805-1880	2110-2170
Bandwidth (Mhz)		75	60
Noise Figure	Uplink	≤8dB (test condition:1MU+1RU)MAX Gain	
Output Power	Uplink	≥-10 ±2dBm	≥-10 ±2dBm
	Dowlink	≥43 ±2dBm	≥ 43 ±2dBm
Spurious Emission		9kHz~150kHz	≤ -36/1KHz
		150kHz~30MHz	≤ -36/10KHz
		30MHz~1GHz	≤ -36@100KHz
		1GHz~12.75GHz	≤ -5@1MHz
Pass Band Ripple		≤+-4dB	
ALC		≥20dB for Downlink	
No, of Remote Unit		1~4 Typical	
Max Gain		50±2dB	
Adjustable Gain Range		30dB	
Adjustable Step		1dB	
Fiber Optic Interface		MU:FC / APC	
		RU: FC / APC	
ACLR	WCDMA2100		Δf=5MHz: 45dBc
			Δf=10MHz: 50dBc
Max. Input Power Without Damage		UL: 0 dBm; DL: 10 dBm	
No, of Remote Unit		1~4 Typical	
VSWR		≤1.8	
IMD	DCS1800		≤-45dBc(2CH)
System Delay		≤5μs (Not consider the fiber delay)	
Impedance		50Ω	

Optical Output Power	≥0 dBm
Optic Wavelength	1310/1550nm
Fiber	Single Mode

Mechanical Specifications

RF Connector	MU: 8 x SMA-Female RU: 1 x N-Female	
Fiber Connector	MU: 4 x FC/APC RU: 1 x FC/APC	
Power Supply	MU/RU: AC110/220V	
Power Consumption	MU: ≤ 45 W RU: ≤ 480 W	
Dimensions	MU: 430*300*44mm RU: 489*409*186.5mm	
Weight	MU: ≤ 9 Kg RU: ≤ 25 Kg	
IP Rating	MU: IP30 RU: IP65	
Control & Monitoring	Local	Via RJ45
	Remote	Via Wireless Modem (optional)

Environmental Specifications

Operation Temperature	-30°C ~ +55°C
Storage Temperature	-40°C ~ +85°C
Humidity	5%~95%
EMC	ETS 300 342-3
MTBF	100,000 hours

Block Diagram

