



REPEATER

S-RWXXXX-1821

SPARKS REPEATER has the cost effective characteristic to wirelessly forward and two-way amplify uplink and downlink cellular signals, supporting FDD-LTE 1800, and FDD-NR 2100 mobile communication signal enhancement and widely adopted to quickly solve the poor coverage issue of indoor areas.

SPARKS products are crafted from robust materials, ensuring durability and stable performance.

SPARKS 增波器具具有高性價比的特點，可無線轉送和雙向放大上下行行動通訊訊號，支援FDD-LTE 1800、FDD-NR 2100行動通訊訊號增強，廣泛採用，快速解決覆蓋不良問題室內區域的問題。

SPARKS 產品採用堅固的材料製成，確保耐用性和穩定的性能。



20dBm



27dBm



33dBm



37dBm

Features

- Maximum 20/27/33/37 dBm output power.
- 最大20/27/33/37dBm輸出功率。
- LCD screen of human-computer interaction interface, displaying real-time equipment working status.
- 人機互動介面液晶螢幕，顯示即時設備工作狀態。
- Supporting Dual- band FDD-LTE 1800, and FDD-NR 2100 full system bandwidth.
- 支援雙頻 FDD-LTE 1800, and FDD-NR 2100 全頻寬系統。
- Small size benefiting simple and convenient installation in engineering tasks.
- 體積小工程任務安裝簡單方便。

Products List

S-RW6520-1821

S-RW8027-1821

S-RW8533-1821

S-RW9037-1821



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20dBm

Features

- Maximum 20dBm output power.
- 最大20dBm输出功率。

Specifications

Electrical Parameters 電性參數	MHz	1800MHz	2100MHz
Uplink Frequency Range 上行頻率範圍	MHz	1710-1775	1920-1980
Downlink Frequency Range 下行頻率範圍	MHz	1805-1870	2110-2170
Operating Mode 工作模式		FDD-LTE	FDD-NR
Operating Bandwidth 工作頻寬	MHz	65	60
Uplink Output Power 上行輸出功率	dBm	20±2	20±2
Downlink Output Power 下行輸出功率	dBm	20±2	20±2
Uplink Maximum Gain 上行最大增益	dB	65±3	65±3
Downlink Maximum Gain 下行最大增益	dB	65±3	65±3
Manual Gain Control (1dB step) 手動增益控制 (全頻帶調整每階 1dB)	dB	0-31	0-31
Auto Level Control 自動電平控制	dB	≥20	≥20
Max. No Damage Power 無損壞最大輸入功率	dBm	-10	-10
Pass Band Ripple (p-p) 通過頻帶波紋	dB	≤±4	≤±4
EVM 誤差向量幅度	%	≤8	≤3.5
Frequency Stability 頻率穩定度	ppm	≤0.01	
Noise Figure (uplink) 上行雜訊指數	dB	≤6	
System Delay 系統延遲	μsec	≤3	
VSWR 駐波比		≤2.4	
Spurious Emissions 混附波輻射		Comply with 3GPP TS 36.106 & TS 38.106	
Spectrum Emission Mask 混附波輻射波罩		Comply with 3GPP TS 36.106 & TS 38.106	

Mechanical Parameters		
Dimensions, L x W x H 尺寸 長x寬x高	mm	250*200*50
Weight (approx.) 重量	kg	2.5
Power Supply 電源		AC100-240V, comply with EN60950
Power Consumption (approx.) 消耗電功率	W	≤20
RF Connectors 射頻接頭		2*N-Female or 4.3-10-Female, 50Ω (customizable)
Local Control 本地控制		LCD+Keypad & Wi-Fi via Web Browser USB-C/RJ45 (customizable)
OMC 連接網管方式		Through WiFi, and LTE Modem can be optional
Operating Temperature 工作溫度	°C	-10 to +55
Operating Humidity 工作濕度	%	≤95
Ingress Protection 異物防護等級		IP40, Indoor
Installation Type 安裝方式		Wall or Pole Mounted
MTBF 平均故障間隔時間	hours	≥50000

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27dBm

Features

- Maximum 27dBm output power.
- 最大27dBm输出功率。

Specifications

Electrical Parameters 電性參數	MHz	1800MHz	2100MHz
Uplink Frequency Range 上行頻率範圍	MHz	1710-1775	1920-1980
Downlink Frequency Range 下行頻率範圍	MHz	1805-1870	2110-2170
Operating Mode 工作模式		FDD-LTE	FDD-NR
Operating Bandwidth 工作頻寬	MHz	65	60
Uplink Output Power 上行輸出功率	dBm	20±2	20±2
Downlink Output Power 下行輸出功率	dBm	27±2	27±2
Uplink Maximum Gain 上行最大增益	dB	75±3	75±3
Downlink Maximum Gain 下行最大增益	dB	80±3	80±3
Manual Gain Control (1dB step) 手動增益控制 (全頻帶調整每階 1dB)	dB	0-31	0-31
Auto Level Control 自動電平控制	dB	≥20	≥20
Max. No Damage Power 無損壞最大輸入功率	dBm	-10	-10
Pass Band Ripple (p-p) 通過頻帶波紋	dB	≤±4	≤±4
EVM 誤差向量幅度	%	≤8	≤3.5
Frequency Stability 頻率穩定度	ppm	≤0.01	
Noise Figure (uplink) 上行雜訊指數	dB	≤6	
System Delay 系統延遲	μsec	≤3	
VSWR 駐波比		≤2.4	
Spurious Emissions 混附波輻射		Comply with 3GPP TS36.106 & TS38.106	
Spectrum Emission Mask 混附波輻射波罩		Comply with 3GPP TS36.106 & TS38.106	

Mechanical Parameters			
Dimensions, L x W x H 尺寸 長x寬x高	mm	350*250*65	
Weight (approx.) 重量	kg	6	
Power Supply 電源		AC100-240V, Comply with EN60950	
Power Consumption (approx.) 消耗電功率	W	≤60	
RF Connectors 射頻接頭		2*N-Female or 4.3-10-Female, 50Ω (customizable)	
Local Control 本地控制		LCD+Keypad & Wi-Fi via Web Browser USB-C/RJ45 (customizable)	
OMC 連接網管方式		Through WiFi, and LTE Modem can be optional	
Operating Temperature 工作溫度	°C	-10 to +55	
Operating Humidity 工作濕度	%	≤95	
Ingress Protection 異物防護等級		IP40, Indoor	
Installation Type 安裝方式		Wall or Pole Mounted	
MTBF 平均故障間隔時間	hours	≥50000	



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33dBm

Features

- Maximum 33dBm output power.
- 最大33dBm输出功率。

Specifications

Electrical Parameters 電性參數	MHz	1800MHz	2100MHz
Uplink Frequency Range 上行頻率範圍	MHz	1710-1785	1920-1980
Downlink Frequency Range 下行頻率範圍	MHz	1805-1870	2110-2170
Operating Mode 工作模式		FDD-LTE	FDD-NR
Operating Bandwidth 工作頻寬	MHz	75	60
Uplink Output Power 上行輸出功率	dBm	23±2	23±2
Downlink Output Power 下行輸出功率	dBm	33±2	33±2
Uplink Maximum Gain 上行最大增益	dB	80±3	80±3
Downlink Maximum Gain 下行最大增益	dB	85±3	85±3
Manual Gain Control (1dB step) 手動增益控制 (全頻帶調整每階 1dB)	dB	0-31	0-31
Auto Level Control 自動電平控制	dB	≥20	≥20
Max. No Damage Power 無損壞最大輸入功率	dBm	-10	-10
Pass Band Ripple (p-p) 通過頻帶波紋	dB	≤±4	≤±4
EVM 誤差向量幅度	%	≤8	≤3.5
Frequency Stability 頻率穩定度	ppm	≤0.01	
Noise Figure (uplink) 上行雜訊指數	dB	≤5	
System Delay 系統延遲	μsec	≤3	
VSWR 駐波比		≤1.5	
Spurious Emissions 混附波輻射		Comply with 3GPP TS36.106 & TS38.106	
Spectrum Emission Mask 混附波輻射波罩		Comply with 3GPP TS36.106 & TS38.106	

Mechanical Parameters		
Dimensions, L x W x H 尺寸 長x寬x高	mm	350x250x110
Weight (approx.) 重量	kg	7
Power Supply 電源		AC100-240V, Comply with EN60950
Power Consumption (approx.) 消耗電功率	W	≤60
RF Connectors 射頻接頭		2*N-Female or 4.3-10-Female, 50Ω (customizable)
Local Control 本地控制		LCD+Keypad & Wi-Fi via Web Browser USB-C/RJ45 (customizable)
OMC 連接網管方式		Through WiFi, and LTE Modem can be optional
Operating Temperature 工作溫度	°C	-10 to +55
Operating Humidity 工作濕度	%	≤95
Ingress Protection 異物防護等級		IP40, Indoor
Installation Type 安裝方式		Wall or Pole Mounted
MTBF 平均故障間隔時間	hours	≥50000



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37dBm

Features

- Maximum 37dBm output power.
- 最大37dBm輸出功率。

Specifications

Electrical Parameters 電性參數	MHz	1800MHz	2100MHz
Uplink Frequency Range 上行頻率範圍	MHz	1710-1785	1920-1980
Downlink Frequency Range 下行頻率範圍	MHz	1805-1880	2110-2170
Operating Mode 工作模式		FDD-LTE	FDD-NR
Operating Bandwidth 工作頻寬	MHz	75	60
Uplink Output Power 上行輸出功率	dBm	23±2	23±2
Downlink Output Power 下行輸出功率	dBm	37±2	37±2
Uplink Maximum Gain 上行最大增益	dB	85±3	85±3
Downlink Maximum Gain 下行最大增益	dB	90±3	90±3
Manual Gain Control (1dB step) 手動增益控制 (全頻帶調整每階 1dB)	dB	0-31	0-31
Auto Level Control 自動電平控制	dB	≥20	≥20
Max. No Damage Power 無損壞最大輸入功率	dBm	-10	-10
Pass Band Ripple (p-p) 通過頻帶波紋	dB	≤±4	≤±4
EVM 誤差向量幅度	%	≤8	≤3.5
Frequency Stability 頻率穩定度	ppm	≤0.01	
Noise Figure (uplink) 上行雜訊指數	dB	≤5	
System Delay 系統延遲	μsec	≤3	
VSWR 駐波比		≤1.5	
Spurious Emissions 混附波輻射		Comply with 3GPP TS 36.106 & TS 38.106	
Spectrum Emission Mask 混附波輻射波罩		Comply with 3GPP TS 36.106 & TS 38.106	

Mechanical Parameters		
Dimensions, L x W x H 尺寸 長x寬x高	mm	500*440*187
Weight (approx.) 重量	kg	35
Power Supply 電源		AC100-240V, Comply with EN60950
Power Consumption (approx.) 消耗電功率	W	≤250
RF Connectors 射頻接頭		2*N-Female or 4.3-10-Female, 50Ω (customizable)
Local Control 本地控制		LCD+Keypad & Wi-Fi via Web Browser USB-C/RJ45 (customizable)
OMC 連接網管方式		Through WiFi, and LTE Modem can be optional
Operating Temperature 工作溫度	°C	-10 to +55
Operating Humidity 工作濕度	%	≤95
Ingress Protection 異物防護等級		IP65, Indoor & Outdoor
Installation Type 安裝方式		Wall or Pole Mounted
MTBF 平均故障間隔時間	hours	≥50000