
실외용 Dual Band ICS 중계기

실외용 Dual Band ICS Repeater (4G 1.7GHz + 5G 3.7GHz)

■ 제품의 외형 및 특징



4G 1.7GHz + 5G 3.7GHz Dual 서비스 지원

4G 대역 : UPLOAD 1730MHz ~ 1750MHz
 DOWNLOAD 1825MHz ~ 1845MHz

5G 대역 : Bandwidth 3.7Ghz 100MHz

다양한 Out-put Power를 통한 넓은 옥외환경 적용

Out-put Power : 1W to 30W

변조기반 TDD 동기화 감지 기능

ICS performance

20dB의 cancellation depth

Low-profile

효율적 비용

예상크기

W * D * H = 400 * 500 * 150 (mm)

중량 : 약 2.5kg 이하

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■ 규격

Item	1.7GHz		3.7GHz		Remark
	Downlink	Uplink	Downlink	Uplink	
Frequency Range	1825MHz~ 1845MHz	1730MHz~ 1750MHz	3.4 GHz ~ 3.7 GHz		Support frequency shifting 5G/ 3.7GHz
Bandwidth	20MHz		100 MHz		User-selectable center freq. & BW
Maximum Output Power	30 dBm /total	30 dBm /total	30 dBm	30 dBm	
Input Power Range	-60 ~ -25 dBm	-60 ~ -25 dBm	-60 ~ -25 dBm	-60 ~ -25 dBm	
System Gain	40 ~ 75 dB		40 ~ 75 dB	40 ~ 75 dB	
Out of Band Gain	TS 36.106 Category A		TS 36.106 Category A		
System Group Delay	< 4.5usec		< 2us		
Noise Figure	-	< 8dB	-	< 8dB	@ UL max Gain
IN VSWR	< 1.5		< 1.5		64QAM
EVM	< 8% LTE,		< 8%		
Spurious Emission	TS 36.106 Category B		TS 36.106 Category B		
Input Inter-Modulation	$\Delta < 10\text{dB}$ @ -40dBm CW 2tone, 1MHz offsets		$\Delta < 10\text{dB}$ @ -40dBm CW 2tone, 1MHz offsets		LTE
ACRR	-5MHz/ +5MHz > 20dB		> 30dBc		
Pass Band Flatness	<4dB p-p		<4dB p-p		
dc power input	12V/ 3.8A		12V/ 3.8A		
Power Consumption	< 45W		< 45W		
ICS					
Direct feedback depth	G=I+15 dB				
# of feedback Signal	5 min.				
ICS window Size	1.5 μ s min.				
Mechanical					
Donor Antenna	Internal or External				Switching via GUI
Service Antenna	Internal or External				Manual Switching
RF Connector Type	SMA female				For External Ant.
Dimension	400 * 500 * 150 (W*H*D)				Bracket excluded
Weight	\leq 30 Kg				Bracket excluded
Operating Temp. & Humidity	-10°C ~ +40°C / 5 ~ 95%				