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# 실내용 Dual Band ICS 중계기

# 실내용 Dual Band ICS 중계기 (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

### 높은 Gain으로 인한 광범위한 실내 환경에 적용 가능

System Gain = 75dB  
66평방미터 이하의 장소에 적용 가능

### 변조기반 TDD 동기화 감지 기능

짧은 지연시간 : 4G < 4.5usec, 5G < 2usec

### 간단한 설치 : Plug & Play

Antenna내장 (Default)  
외부Antenna : 단순 조립  
LED display

### 예상크기

W \* H \* D = 152 \* 228 \* 77 (mm)  
중량 : 약 2.5kg 이상

※ ICS : Interference Cancellation System 干渉除去システム

# 실내용 Dual Band ICS 중계기 (4G 1.7GHz + 5G 3.7GHz)

## ■ 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	15 dBm /total	15 dBm /total	15 dBm	15 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	$\Delta$ <10dB @ -40dBm CW 2tone, 1MHz offsets		$\Delta$ <10dB @ -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 $\mu$ 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	152 * 228 * 77 (W*H*D)				Bracket excluded
Weight	$\leq$ 2.5 Kg				Bracket excluded
Operating Temp. & Humidity	-10°C ~ +40°C / 5 ~ 95%				