

❖ **General Description :**

The repeater is an ideal solution to solve indoor coverage problems of a single operator.

The repeater functions as a relay between the BTS and mobiles. It picks up an external signal from a donor antenna and amplifies it and transmits it back to the area to be covered by the antenna cover.

The micro repeater has many advantages:

- **Adjustable band**
- **Easy installation and maintenance**
- **High system gain**
- **Linear power amplification to effectively suppress inter-modulation and spurious emissions**
- **The ALC ensures a stable and continuous output level.**



🚦 Technical Characteristics					
SYSTEM		2G/3G	2G/4G	3G/4G	4G
Frequency	Uplink	880~915MHz	1710~1785MHz	1920~1980MHz	2500~2570MHz
	Downlink	925~960MHz	1805~1880MHz	2110~2170MHz	2620~2690MHz
Bandwidth		Operator Band (2 sub-bands each 0.2-25 MHz)			
Maximum Gain		Uplink: 70±3dB;Downlink: 70±3dB;			
Maximum Output Power	+ 15 dBm	Uplink: 15±2dBm; Downlink: 15±2dBm;			
	+ 20 dBm	Uplink: 20±2dBm; Downlink: 20±2dBm;			
AGC control range		≥20dB			
I/O Impedance		50 Ω			
Noise Figure		≤ 6dB			
System delay		≤ 8µs			
VSWR		≤ 2			
Spurious Emission		9kHz~1GHz: ≤ -36dBm/30kHz			
		1GHz~12.75GHz:≤-30dBm/30kHz			
Error Vector Magnitude		--	Compliance with 3GPP TS36.106		
Peak Code Domain Error		--	Compliance with 3GPP TS36.106		
Third-order Inter-Modulation		≤-36dBc/30kHz	Compliance with 3GPP TS36.106		

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DAT/MICRO REPEATER/010090A

Rédigé : V.Raoul
Selon modèle DAT1448C

Vérfié : A.Sabaca

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Approuvé : O.Deblock

🚦 Mechanical & Electrical characteristics	
RF Connector	N-Type (Female)
Power Consumption	≤ 60W max
Power Supply	Input AC100~ 240V Output DC 9V/10A
Dimensions	318mm×265mm×113mm
Weight	≤11 kg
Alarm Monitoring System	Alarm for uplink self-oscillation
Indication LED	Power supply, Alarm, state
Operating Temperature	-10 ~ +45 °C
Application	Indoor(IP30)
Control Connector (Optional)	RJ45 for Local (3G modem for remote)
NMS(Optional)	Power supply, Output power, Gain, UL/DL ATT, etc.

Application:

offices, parking lots...

