



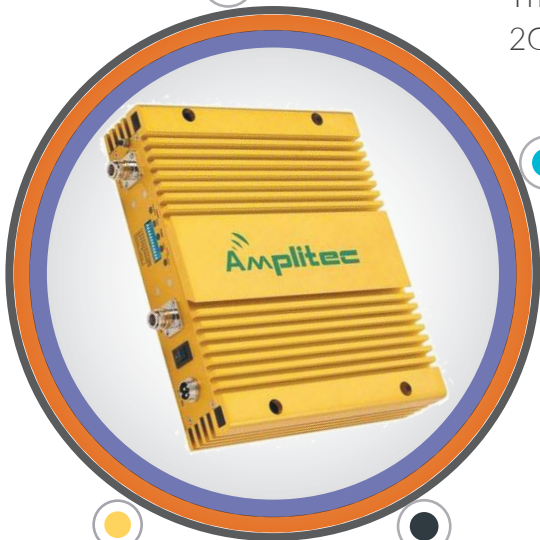
LARGE AREA REPEATERS

APPLICATION

- High power repeaters will give large area coverage in all the bands indicated if installed correctly.
- These are the GSM900, DSC1800 and WCD- MA2100 bands on which 2G, 3G and 4G are provided. B8,B3 & B1.

FEATURES

- The C27C boosters have 27dBm output power with 75dB gain that will give coverage to a large size home and are ideal for farm or lodge installations.
- They have super features like ASO Automatic shut-off if any oscillation starts.
- Sleep mode power saving mode is standard.
- It has a dormant Uplink - the unit "sleeps" until making a call. This which puts less noise on the network.
- AGC the automatic adjusting of 20dB gain ensures that unstable signal does not cause drop calls.
- MGA Manual gain attenuation function where base stations are upgraded.
- LED lights display ensure all adjustments are easily accessed.
- Causes no interference to the BTS base station.
- 12Vdc adaptability.



STANDARD PACKAGE

- High power booster, plus power adapter and installation fittings.
- Supplied standard with a voltage-surge protection against electrical surges and unstable power source and includes a repair warranty and user manual.

CONTACT



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SDE

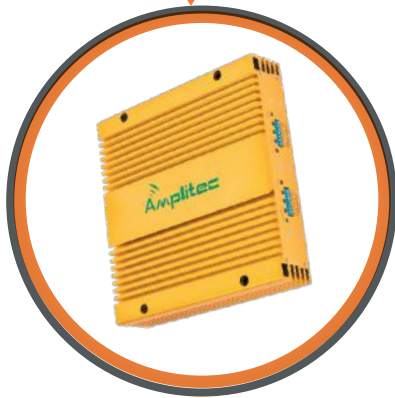
C27C-GSM+SURGE TA2019-2487



Technical Specifications			
Items		Uplink	Downlink
Frequency Range		890 ~ 915 MHz	935 ~ 960 MHz
Bandwidth		25 MHz	25 MHz
[1] Output Power		20±2 dBm	27±2 dBm
Gain		70±2 dB	75±2 dB
Ripple		≤8 dB	≤8 dB
VSWR		≤2	≤2
Max. Input Power Without Damage		-10 dBm	-10 dBm
Intermodulation Products		≤-36dBm	≤-45 dBm
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
ATT step of 1 dB	1~10 dB	Δ ≤1 dB	Δ ≤1 dB
	10~20 dB	Δ ≤1 dB	Δ ≤1 dB
	20~25 dB	Δ ≤1.5 dB	Δ ≤1.5 dB
ALC Active 10dB		Δ ≤2 dB	Δ ≤2 dB
LED Indication	Power On	Green	
	Power Off	No Light	
Alarm	ALC not Active	—	Green
	ALC Active 5~10dB	—	Orange
	ALC Active >15dB	—	Red
Noise Figure @ max. gain		≤6 dB	≤6 dB
Time Delay		≤1.5 μs	≤1.5 μs
Power Supply		DC: 12 V / 3 A	
RF Connector		N-Female	
Environment Conditions		IP40	
Humidity		< 90%	
Operating Temperature		-10°C ~ +55°C	
Note: [1] when the model is C24C-GSM, "27±2 dBm" changes to "24±2 dBm"			

S D E

C27C-GD+SURGE TA2019-2487



Technical Specifications			
Electrical Specification		Uplink	Downlink
Frequency Range	GSM	890 ~ 915 MHz	935 ~ 960 MHz
	DCS	1710 ~ 1785 MHz	1805 ~ 1880 MHz
Max.Gain		75dB	77dB
Output Power		20dBm	27dBm
Gain Adjust Range		31dB in step of 1dB	
Automatic Gain Control		> 20dB	
Ripple in Band		GSM ≤8dB (P-P) ; DCS ≤10dB (P-P)	
Max. Input Power Without Damage		0dBm	
Intermodulation Products	9KHz~1GHz	-36dBm	-45dBc
	1GHz~12.75GHz	≤-30dBm	-45dBc
Spurious Emission	9KHz~1GHz	-36dBm	-36dBm
	1GHz~12.75GHz	-30dBm	-30dBm
Noise Figure		< 8dB	
VSWR		2	
Time Delay		0.5μs	
MTBF		> 50000hours	
Power Supply		AC160~264V, 50/ 60Hz	
Impedance		50 ohm	
LED indication	Power LED	DC ON/OFF	
	Alarm LED	ALC 1~5dB,orange	
		ALC 20~25dB,red	
Mechanical Specification			
I/O Port		N-Female	
Dimensions (D x W xH)		275*268*58 mm	
Weight		4.5Kg	
Installation Type		Wall Installation	
Environment Conditions		IP40	
Environmental Specifications			
Humidity		< 90%	
Operating Temperature		-10 ~55	



C27C-GW+SURGE



Technical Specifications					
Electrical Specification		GSM		WCDMA	
		Uplink	Downlink	Uplink	Downlink
Frequency Range		890 ~ 915 MHz	935 ~ 960 MHz	1920 ~ 1980 MHz	2110 ~ 2170 MHz
Max.Gain		75dB	77dB	75dB	77dB
Output Power		20dBm	27dBm	20dBm	27dBm
Gain Adjust Range		31dB in step of 1dB			
Automatic Gain Control		> 20dB			
Max. Input Power Without Damage		0dBm			
Ripple in Band		≤8dB (P-P)		≤5dB (P-P)	
Intermodulation Products	9KHz~1GHz	-36dBm	-45dBc	Comply with 3GPP TS 25.106@Po=24dBm	
	1GHz~12.75GHz	≤-30dBm	-45dBc		
Spurious Emission	9KHz~1GHz	-36dBm	-36dBm	Comply with 3GPP TS 25.106@Po=24dBm	
	1GHz~12.75GHz	-30dBm	-30dBm		
Modulation Accuracy		--		Comply with 3GPP TS 25.106	
Peak Code Domain Error		--		Complies with 3GPP TS 25.106	
ACRR		--		Comply with 3GPP TS 25.106	
Noise Figure		< 3dB			
VSWR		2			
Time Delay		0.5μs			
MTBF		> 50000hours			
Power Supply		AC160~264V, 50/ 60Hz			
Impedance		50 ohm			
LED indication	Power LED	DC ON/OFF			
	Alarm LED	ALC 1~5dB,orange ALC 20~25dB,red			
Mechanical Specification					
I/O Port		N-Female			
Dimensions (D x W xH)		275*268*58 mm			
Weight		4.5Kg			
Installation Type		Wall Installation			
Environment Conditions		IP40			
Environmental Specifications					
Humidity		< 90%			
Operating Temperature		-10 ~55			

