

## W20-GW-MTN

Items		Uplink	Downlink	
Frequency Range	GSM	901.5 ~ 914.7 MHz	946.5 ~ 959.7 MHz	
	WCDMA	1949.9 ~ 1959.9 MHz	2139.9 ~ 2149.9 MHz	
Output Power	GSM	15±2 dBm	20±2 dBm	
	WCDMA	15±2 dBm	20±2 dBm	
Gain	GSM	65±2dB	70±2dB	
	WCDMA	65±2dB	70±2dB	
ALC		>20dB		
Manual Gain Control		30dB in step of 1dB		
Bandwidth	GSM	13.2 MHz	13.2 MHz	
	WCDMA	10 MHz	10 MHz	
Ripple in Band	GSM	≤4dB	≤4dB	
	WCDMA	≤2dB/3.84MHz	≤2dB/3.84MHz	
Out of Band Gain (GSM)	± 600 KHz	≤ 40dB	≤ 40dB	
	± 1 MHz	≤ 35dB	≤ 35dB	
	± 5 MHz	≤ 25dB	≤ 25dB	
Out of Band Gain (WCDMA)	2.5≤f-offset<3.5MHz	≤ 60dB	≤ 60dB	
	3.5≤f-offset<7.5MHz	≤ 45dB	≤ 45dB	
	7.5≤f-offset<12.5MHz	≤ 45dB	≤ 45dB	
	12.5≤f-offset	≤ 35dB	≤ 35dB	
Intermodulation Products	GSM	≤-36 dBm	≤-36 dBm	
	WCDMA	≤-30 dBm	≤-30 dBm	
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm	
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm	
EVM(WCDMA)		≤ 12.5%	≤ 12.5%	
PCDE(WCDMA)		≤ -35dB	≤ -35dB	
Noise Figure @ max. gain	GSM	≤ 8 dB	≤ 8 dB	
	DCS	≤ 8 dB	≤ 8 dB	
VSWR	GSM	≤2	≤2	
	DCS	≤2	≤2	
Group delay		≤5uS		
Alarm	GSM	ALC not active	-	Green
		ALC Active1-5dB	-	Orange
		ALC Active>20dB	-	Red
	DCS	ALC not active	-	Green
		ALC Active1-5dB	-	Orange
		ALC Active>20dB	-	Red
Power Supply		DC: 12V/5A		
Power Consumption		<45W		
RF Connector		N-Female		
Environment Conditions		IP40		



## W20-GW-MTN

Items	Uplink	Downlink
Humidity	< 90%	
Operating Temperature	-10°C~55°C	

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