

## W20-GD-MTN

Items		Uplink	Downlink
Frequency Range	GSM	901.5 ~ 914.7 MHz	946.5 ~ 959.7 MHz
	DCS	1722.7~ 1734.7 MHz	1817.7 ~ 1829.7 MHz
Bandwidth	GSM	13.2 MHz	13.2 MHz
	DCS	12 MHz	12 MHz
Output Power	GSM	15±2 dBm	20±2 dBm
	DCS	15±2 dBm	20±2 dBm
Gain	GSM	65±2 dB	70±2 dB
	DCS	65±2 dB	70±2 dB
ATT(GSM) 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
ATT(DCS) 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 10 dB		Δ   ≤2 dB	Δ   ≤2 dB
Out of Band Gain	GSM	± 600 KHz ≤ +40dB	± 600 KHz ≤ +40dB
		± 1 MHz ≤ +35dB	± 1 MHz ≤ +35dB
		± 5 MHz ≤ +25dB	± 5 MHz ≤ +25dB
	DCS	± 600 KHz ≤ +40dB	± 600 KHz ≤ +40dB
		± 1 MHz ≤ +35dB	± 1 MHz ≤ +35dB
		± 5 MHz ≤ +25dB	± 5 MHz ≤ +25dB
Ripple in Band	GSM	≤4 dB	≤4 dB
	DCS	≤4 dB	≤4 dB
Intermodulation Products	GSM	≤-36 dBm	≤-36 dBm
	DCS	≤-30 dBm	≤-30 dBm
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
Noise Figure @ max. gain	GSM	≤8 dB	≤8 dB
	DCS	≤8 dB	≤8 dB
VSWR	GSM	≤2	≤2
	DCS	≤2	≤2
Time delay	GSM	≤5 μs	≤5 μs
	DCS	≤5 μs	≤5 μs
LED Indication	Power On	Green	
	Power Off	No Light	
Alarm (GSM)	ALC not Active	---	Green
	ALC Active 1~5dB	---	Orange
	ALC Active >20dB	---	Red
Alarm	ALC not Active	---	Green



## W20-GD-MTN

Items		Uplink	Downlink
(DCS)	ALC Active 1~5dB	--	Orange
	ALC Active >20dB	--	Red
Power Supply		DC: 12 V / 5 A	
RF Connector		N-Female	
Environment Conditions		IP40	
Humidity		< 90%	
Operating Temperature		-10°C ~ +55°C	

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