



- Output Frequency Range 7900 - 8400 MHz
- Input Frequency Range 950 to 1450 MHz
- LO frequency switchable 6950 MHz



20W X-band BUC

Model: GB20XS3N

Item	Specification
OUTPUT Frequency Range	7900 - 8400 MHz
INPUT Frequency Range	950 - 1450 MHz
LO Frequency (M&C switching)	6950 MHz
RF Output Power @ P1dB	43 dBm
Gain	65 dB
Gain flatness	± 2.0 dB
Spurious	< -50 dB
IF Input Interface	50 ohm – N type
RF Output Flange	CPR112
Phase Noise	< -60 dBc/Hz at 100 Hz, < -75 dBc/Hz at 1 kHz < -85 dBc/Hz at 10 kHz < -95 dBc/Hz > at 100 kHz
External Reference	10 MHz sine wave
Ref Input Level	-5 to +5 dBm @ 50 ohm
Shut off BUC in case of LO unlocked	internal
AC Power supply	AC 110/220V 50/60Hz, 48VDC optional
Power consumption	250 W
Operating Temperature	-40 °C to 50 °C
Relative Humidity	up to 100% (water proof design)
Dimensions:	285 x 120 x 100 mm
Weight:	5.0kg

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Connector Pin Assignment

Connector Name	Type	Pin #	Signal	Parameter
J1 "IF IN"	N/F-type female field replace-able	N/A	IF Input 10 MHz Ref. IN	-0 dBm, max +5 dBm
J2 "RF OUT"	CPR-112	N/A	RF Output	45/46/47 dBm
J3 "AC POWER IN"	MS3100A-14S-7P 3 pin male MS3106E12S-3P 2 pin male	A	Line AC (DC)	90 - 120 / 180 - 240VAC
		B	Ground AC (DC)	
		C	Neutral AC	48VDC (optional)
J4 "M&C Interface"	PT02E12-10P-027 10 pin male	A	Rx+ In	RS-485
		B	Rx- In	
		C	Tx+ Out	
		D	Tx- Out	
		E	Detector	optional
		F	Alarm Out	Low when alarm
		G	GND	
		H	Mute In	Muted when Low
		J	Rx In	RS-232
		K	Tx Out	