

UHF TO 2.4 GHz BLOCK TRANSLATOR

MODEL NUMBERS SB664C, C.1, AND D

TECHNICAL SPECIFICATIONS

S-BAND TO UHF TRANSLATOR

S-Band Modem Tx Output	
Frequency range	2400 to 2500 MHz
Input Power Level	-10 to +20 dBm
Tx Signal Bandwidth	5, 10, 15 and 20 MHz, typical
Signal Gain to UHF Port	-25 dB to +28 dB (30 dBm output over a 5 MHz Tx bandwidth) Adjustable in 1 dB increments

UHF Tx Output	
Frequency Range	512 to 698 MHz
Tx 1 dB Compression	+33 dBm

UHF TO S-BAND TRANSLATOR

UHF Rx Input	
Frequency Range (3dB)	512 to 698 MHz - Rev C, 450 to 750 MHz - Rev C.1
Power Level	-10 to -90 dBm
Tuning Increments	1 MHz
Receive 1 dB Compression	0 dBm (at the Rx input)

TX Chain Gain	
UHF to S-Band Translation	16 dB, typical
UHF Receive Band Monitor	20 dB, typical

Rx Noise Figure	5 dB, max.
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S-Band Modem Receiver Input	
Frequency Range	2400 to 2500 MHz (no change)
Power Level	-75 dBm to -10 dBm, typical

Spectral Inversion	None
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ENVIRONMENTAL

Internal Frequency Reference	10 MHz \pm 2.5 ppm
LO Integrated Phase noise	5° rms, maximum (using 1 MHz tuning increments)
Operating Temperature Range	10°C to 50°C
All RF Port Impedances	50 Ohms, nominal
RF Connectors	SMA, female

Auxiliary RF Ports	
S-Band Power Monitor	Log detector output
Scan Rx	UHF receive monitor
Separate Rx and Tx Antennas	Factory selected option

DC Power Requirements	
Voltage	+12 \pm 0.1 Vdc
Current	900 mA, typical

Computer Control Interface	RS-232 Serial or USB (jumper selected)
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Transmit Control Interface	Automatic or external (jumper selected)
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Digital Control Inputs	
External TR Select	Selects either Tx or Rx mode
Reset	Processor reset

Digital Monitor Output	TR Mode
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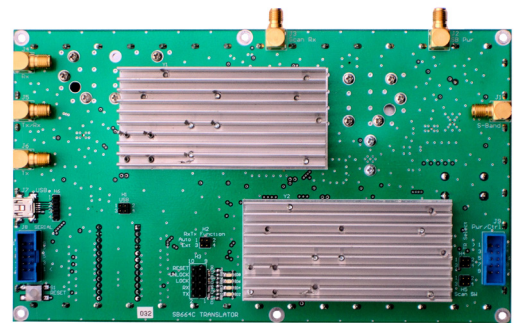
LED Indicators	DC Power, Synthesizer Lock, Tx, Rx
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SB664D VERSION INCLUDES

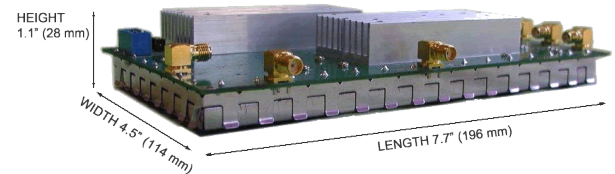
Fast AGC

Customer selection of two Rx input preselector filters

SB664 TRANSLATOR VIEWS



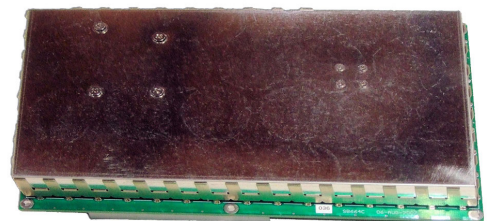
Top view



Isometric (side) view

Dimensions:

7.7\"/>



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