

**Complete VSAT Dual Band RF Outdoor Unit Solution in a Single Box**  
**Both Extended and Regular Ku-bands covered**



### Key Features

- Integrated BUC, LNB & OMT/TRF
- Fixed linear polarization TX/RX
- Compact size and lightweight
- High-Performance Feed Horn
- Bi-colour status LED
- IP67 Environmental Protection
- One TRCVR works in both bands
- BUC: Covers both Standard (14.00 -14.50 GHz) and Extended bands (13.75 - 14.5 GHz) with C7700+ type modems
- BUC: Constant Gain type with Low Phase Noise Local Oscillator and External 10 MHz Reference
- LNB : Full range (10.70 - 12.75 GHz) Dual-band PLL type
- Compact, Durable Housing with High Thermal Margin
- High Performance Feed Horn pre-fitted
- EN 301428 & FCC 47 CFR15/25 compliant with 98cm & 1.2 m SpaceBridge Antennas, Model# 98138 and 12139
- CE & RED Compliant
- RoHS-2 Compliant

### Model # and Ordering

- 3 W Regular/Extended-Ku-band TRCVR: SBTR6030



## Specifications

Feed Horn					
Parameter	Minimum	Typical	Maximum	Unit	Note
Type	Long Focal Length (LFL) type				
Design f/D	0.8				
Polarization	Linear, Fixed X-polar				Adjustable
Cross Polarization Discrimination (XPD)		35		dB	
LNB					
Parameter	Minimum	Typical	Maximum	Unit	Note
RF Input Frequency Range	10.70 11.70		11.70 12.75	GHz GHz	Low band High band
Local Oscillator Frequency		9.75 10.60		GHz GHz	Low band High band
LO Oscillator Frequency Stability			+/- 5	ppm	PLL, Internal Reference
IF Output Frequency Range	950 1100		1950 2150	MHz MHz	Low band High band
Noise Figure		0.9	1.0	dB	TX On
Conversion Gain	50	56	62	dB	
Band Switch Command	22 kHz tone (DiSEqC) <sup>22.1</sup>				
Supply Voltage	10.0		26	VDC	
Supply Current			100	mA	
BUC					
Parameter	Minimum	Typical	Maximum	Unit	Note
IF Input Frequency Range	950		1700	MHz	
Local Oscillator Frequency		12.80		GHz	
RF Output Frequency	13.75		14.50	GHz	
LO Oscillator Phase Noise, integrated		1.0	2.0		100 Hz - 1MHz
LO Oscillator Reference Frequency		1.0		MHz	
Operational Output Power		3.0		W	at P1dB
Conversion Gain	52	55	58	dB	
Supply Voltage	12		30	VDC	
Supply Current at P1dB		0.9	1.0	A	at 24V
General					
Parameter	Minimum	Typical	Maximum	Unit	Note
Operational Temperature	-40		+60	°C	
Dust/Moisture/Water protection	IP67				100% tested
Connectors	F-type (Receptacle)				75 Ohm
Dimensions without Feed Horn	159 x 96.20 x 52			mm	
Weight with Feed Horn			1.6	kg	