



global skyware
completing the picture

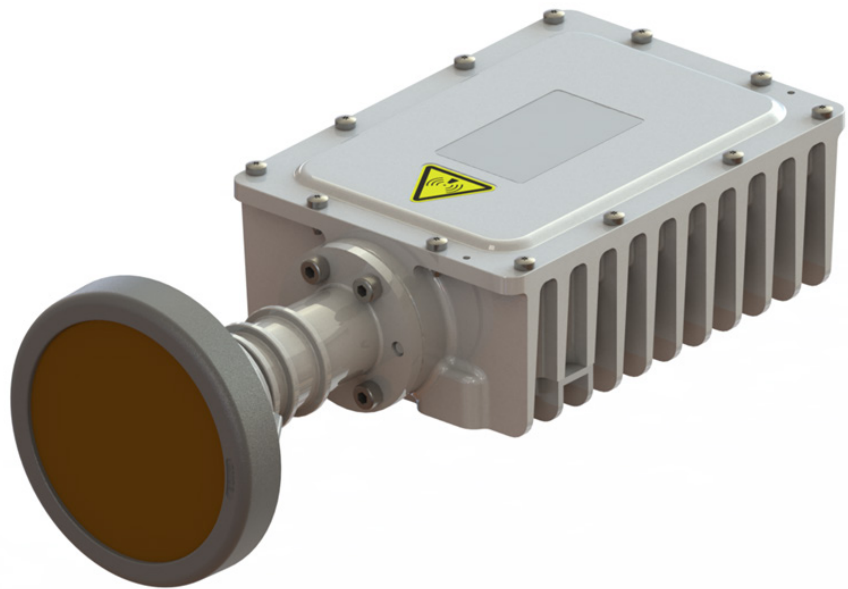
XRZ10F16 / XRZ10F16SE Ku-band VSAT Transceivers

Key Features:

- Integrated BUC, LNB & OMT
- Fixed cross-polar TX/RX
- Compact Outline
- High Performance Feed Horn
- Bi-colour status LED
- IP67 Water Protection

Models:

- 1.5 W standard-Ku XRZ11F16
- 1.5 W extended-Ku XRZ11F16SE
- 3 W standard-Ku XRZ13F16
- 3 W extended-Ku XRZ13F16SE



- Complete VSAT Outdoor Unit Solution in a Single Box
- BUC : Standard band (14.00 - 14.50 GHz) and Extended (13.75 - 14.5 GHz)
- BUC : Constant Gain type with Low Phase Noise Local Oscillator and External 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 up to 2.4 m Antenna
- CE & RED Compliant
- RoHS-2 Compliant



SPECIFICATIONS

XRZ10F16 / XRZ10F16SE Ku-band VSAT Transceiver

Feed Horn

Parameter	Minimum	Typical	Maximum	Unit	Note
Type	Long Focal Length (LFL) type				
Design f/D	0.8				
Polarization	Linear, Fixed X-polar				
Cross Polarization Discrimination (XPD)	25			dB	skewable

LNB

Parameter	Minimum	Typical	Maximum	Unit	Note
RF Input Frequency Range	Low band	10.70	11.70	GHz	
	High band	11.70	12.75	GHz	
Local Oscillator Frequency	Low band	9.75		GHz	
	High band	10.60		GHz	
LO Oscillator Frequency Stability			+/- 25	ppm	internal reference
IF Output Frequency Range	Low band	950	1950	MHz	
	High band	1100	2150	MHz	
Noise Figure	at 25 °C		1.3	dB	at LNB Input WG
			1.6	dB	at Feed WG Port
Conversion Gain	50	56	62	dB	
Band Switch Command	22 kHz tone				
Supply Voltage	11.5		26	V	
Supply Current			100	mA	

BUC

Parameter	Minimum	Typical	Maximum	Unit	Note
IF Input Frequency Range	XRZ11F16 / XRZ13F16	950	1450	MHz	
	XRZ11F16SE / XRZ13F16SE	950	1700	MHz	
Local Oscillator Frequency	XRZ11F16 / XRZ13F16	13.05		GHz	
	XRZ11F16SE / XRZ13F16SE	12.80		GHz	
RF Output Frequency	XRZ11F16 / XRZ13F16	14.00	14.50	GHz	
	XRZ11F16SE / XRZ13F16SE	13.75	14.50	GHz	
LO Oscillator Phase Noise, integrated		1.0	2.0	°	100 Hz - 1 MHz
LO Oscillator Reference Frequency		10		MHz	
Operational Output Power	XRZ11F16 / XRZ11F16SE	1.5		W	at P1dB
	XRZ13F16 / XRZ13F16SE	3.0		W	
Conversion Gain	XRZ11F16 / XRZ11F16SE	50	53	56	dB
	XRZ13F16 / XRZ13F16SE	52	55	58	dB
Supply Voltage	13		28	V	
Supply Current at P1dB	XRZ11F16 / XRZ11F16SE		0.85	A	at 24V
	XRZ13F16 / XRZ13F16SE		1.0	A	

General

Parameter	Minimum	Typical	Maximum	Unit	Note
Operational Temperature	-25		+55	°C	
Moisture/Water protection	IP67				100% tested
Connectors	F-type				75 Ohm
Dimensions without Feed Horn	159 x 96.20 x 52			mm	
Weight with Feed Horn				1.6	kg