

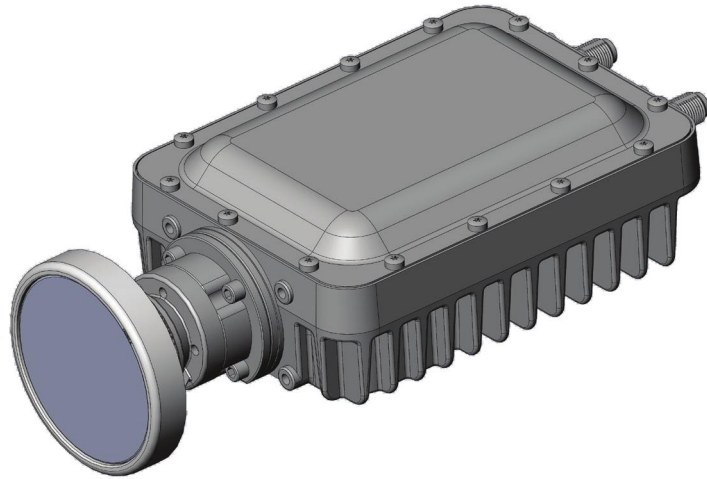


XRF 3100 / 3300

High-Value Ka-Band VSAT Transceiver

Key Features:

- Field configurable integrated circular polarisation
- 1.5 Watt, 3 Watt and 6 Watt transmit output power options
- PLL (± 25 ppm) or DRO (± 4 MHz) LNB options
- Integrated OMT and TRF for best EIRP and G/T
- S-Band IF Modem interface with 10 or 50 MHz reference
- Durable IP-rated enclosure



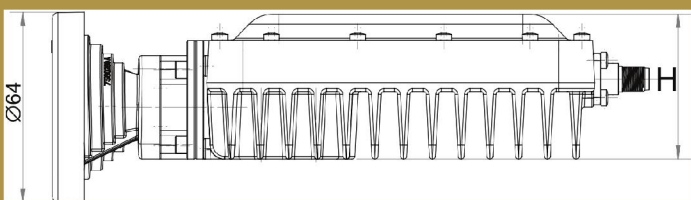
The Skyware Technologies XRF transceiver is the result of applying the industry's cutting edge Ka-Band VSAT engineering techniques and production methods to result in our lightest, most compact and affordable design to date. The ruggedised IP-67 sealed enclosure integrates a BUC, LNB, field-configurable circular polariser, OMT, and TRF guaranteeing consistent communications performance. The XRF transceiver additionally includes audible pointing assistance to simplify installation.

Supporting the latest S-Band modem technologies with flexible 10 and 50 MHz reference compatibility, and available in 1.5, 3 and 6 Watt transmit power options, the XRF is optimised for high volume production for global consumer broadband deployments. Production units are 100% tested with a rigorous process to ensure reliable maintenance-free operation for years.

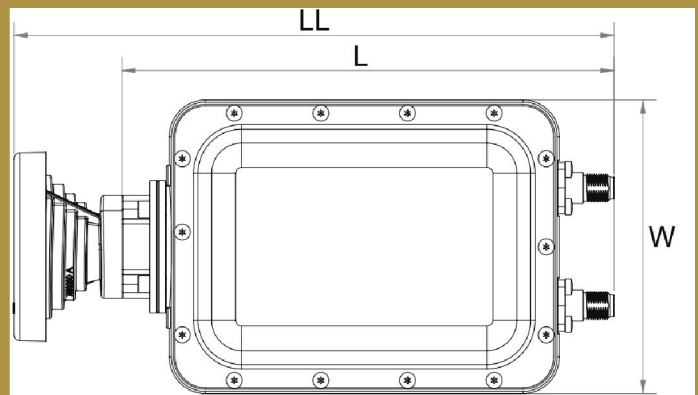


Dimensions (mm)

Model	L	LL	W	H
XRF3100/300	170	208	100	49



Unit appearance may differ from that shown.



XRF 3100 / 3300

Ka-Band Outdoor VSAT Transceiver

Technical Specification

Feed and Polariser

Parameter	Min	Typical	Max	Unit	Note
Feed and Polariser Subsystem		integrated			Matched to Skyware antennas
Polarisation		RHCP/LHCP			Field configurable, RX/TX orthogonal
XPD					
TX	25			dB	
RX	20			dB	

TX Subsystem (BUC)

Parameter	Min	Typical	Max	Unit	Note
IF Input Frequency Range	1400		2400	MHz	Other options available
RF Output Frequency Range	29.0		30.0	GHz	Other options available
Local Oscillator Frequency		27.6		GHz	Other options available
Local Oscillator Phase Noise			2.3	deg	DSB rms, 100 Hz – 100 kHz
Local Oscillator Ext Ref Frequency	Option	10		MHz	
	Option	50		MHz	
Operational Power @ P1dB (20 dBc ACPR)	XRF3100 1.6			W	
	XRF3300 2.5			W	
IF Input Drive Power		-17		dBm	
IF Input Impedance		75		Ohm	F-type receptacle
RF Output Spurious Level	according to EN301 459 and FCC 47 CFR 15/25 AB				
Supply Voltage	15		50	V	DC via TX IF port
Power Consumption	XRF3100	25		A+	
	XRF3300	40		A+	

Rx Subsystem (LNB)

Parameter	Min	Typical	Max	Unit	Note
RF Input Frequency	17.8		20.2	GHz	Other options available
IF Output Frequency Range	950		2150	MHz	Other options available
Local Oscillator Frequency (nominal)		16.85/18.05		GHz	Other options available
Local Oscillator Frequency Tolerance	PLL		±25	ppm	option
	DRO		±4	MHz	option
Local Oscillator Integrated Phase Noise			2	deg	1kHz - 1 MHz
Total Transceiver Noise Figure @ 25°C		1.2	1.5	dB	TX ON (Carrier On/Off)
Conversion Gain	52	56	62	dB	
Image Band Rejection	25			dB	
IF Output IP3	+10			dBm	
IF Output Impedance		75		75 Ohm	F-type receptacle
Supply Voltage	18		52	V	
Power Consumption		4		W	

General

Parameter	Min	Typical	Max	Unit	Note
Operational Temperature	-40		+50	°C	See options available
Moisture/Humidity Protection Class					IP67
Weight		1.1		kg	Including feed

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All designs, specifications and availabilities of products and services presented in this bulletin are typical and subject to change without notice.

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