



DRU 17F16XSE

7 Watt Extended Ku-Band, Dual Polar VSAT Transceiver

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Model DRU17F16XSE
Ku-Band VSAT transceiver
offers complete flexibility
for global applications



Skyware Technologies introduce the DRU17F16XSE series Ku-Band integrated transceiver.

This compact and fully integrated VSAT transceiver interfaces with common VSAT modems.

A built-in Universal VSAT PLL LNB covers full Ku-band as well as Co- and Cross-Polarization.

These features offer huge logistical advantages over existing VSAT outdoor systems which consist of discrete modules.

The integrated 7 W BUC was designed for high efficiency and linearity, thus reducing operating temperatures, increasing reliability and minimizing environmental footprint.

In addition, the integrated OMT, TRF, RRF and Diplexer are internally optimized which guarantees consistent system EIRP and G/T over a long lifetime.

- *Powerful, extended Ku-Band BUC*
- *High stability, universal PLL LNB*
- *Compact housing*
- *Integrated OMT, TRF and Diplexer*
- *Fast and easy installation*
- *Guaranteed EIRP and G/T*
- *100% tested over temperature*
- *High reliability*
- *RoHS compliant*
- *Feed horn adapter kits available for all common VSAT antennas*
- *Made in Germany*



SPECIFICATIONS

Model DRU17F16XSE 7 Watt Extended Ku-Band, Dual Polar VSAT Transceiver

General Specifications

Parameter	Minimum	Typical	Maximum	Unit	Note
Weight			3300	g	Radio Module without Feed
Operating Temperature	-40	0	55	°C	
Moisture/Humidity Protection					IP67

Polarization Diplexer (OMT)

Parameter	Minimum	Typical	Maximum	Unit	Note
XPD on Common Port	TX	35	40	dB	Orthogonal Linear Polarizations
	RX	30			
Common Port Connector					18.5 mm Circular-WG, flat flange with 4 x M4 holes spaced as shown below

Tx Sub-System (BUC with External Reference)

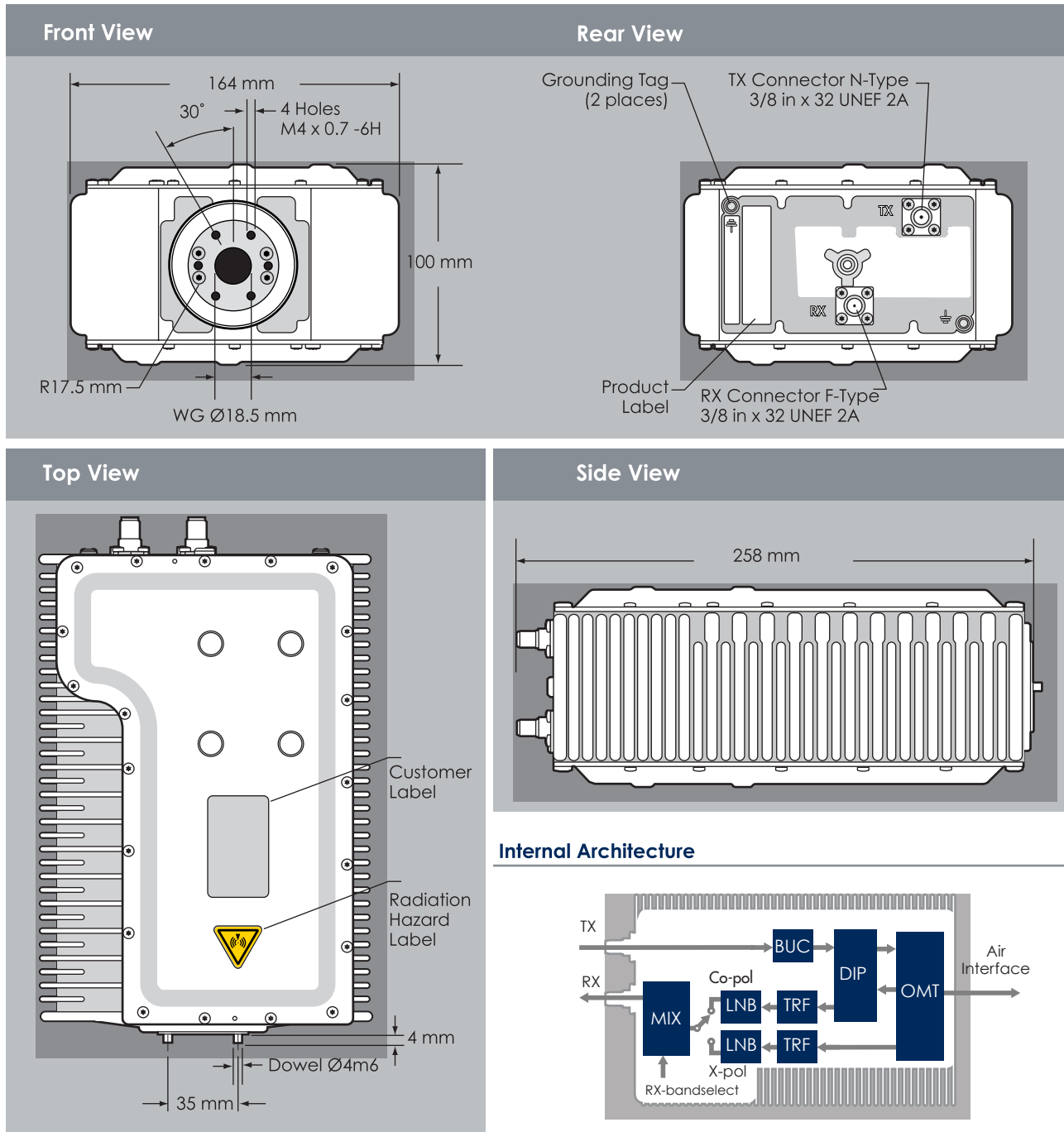
Parameter	Minimum	Typical	Maximum	Unit	Note
RF Output Power	Linear Service - 1 dB GainP1 dB		38.5	dBm	At the Antenna Feed
IF Input Frequency Range	950		1700	MHz	
RF Output Frequency Range	13.75		14.50	GHz	
Local Oscillator Frequency (Nominal)		12.80		GHz	
Local Oscillator Phase Noise (SSB)	@ 100 Hz		-55	dBc/Hz	
	@ 1 kHz		-72	dBc/Hz	
	@ 10 kHz		-82	dBc/Hz	
	@ 100 kHz		-92	dBc/Hz	
Local Oscillator Reference Frequency		10		MHz	Sine Wave
RF Output Spurious	Meets EN 301 428 and FCC 47 CFR 15/25 with a 49 dBi antenna				
RF Output Spectrum Inversion	No				
IF Input Impedance, Nominal		75 or 50		Ohm	
IF Input Connector	F-Type or N-Type				
Conversion Gain, Linear Operation	53	56	59	dB	
Supply Voltage	20		30	V	

Dual Polarization Rx Sub-System (Dual Band PLL LNB with External Reference)

Parameter	Minimum	Typical	Maximum	Unit	Note
RF Input Frequency Range	Low Band	10.70	11.70	GHz	
	High Band	11.70	12.75	GHz	
IF Output Frequency Range	Low Band	950	1950	MHz	
	High Band	1100	2150	MHz	
Local Oscillator Frequency, Nominal	Low Band	9.75		GHz	
	High Band	10.60		GHz	
Local Oscillator Frequency Tolerance	Determined by External Reference				
Local Oscillator Integrated Phase Noise			2.5	°rms	100 Hz - 10 MHz
Local Oscillator Reference Frequency		10		MHz	Sine Wave
Noise Figure @ 25°C		1.0	1.5	dB	TX On (Carrier On or Off)
Conversion Gain	50	56	62	dB	
IF Output IP3	+15			dBm	
IF Output Spectrum Inversion	No				
IF Output Impedance		75 or 50		Ohm	
IF Output Connector	F-type or N-type				
Band Switching Command		0/22		kHz	
Polarization Switching Command		13/17		V	
Supply Voltage	11		25	V	

MECHANICAL SPECIFICATIONS

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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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