



# DRU 17F16X

## 7 Watt Standard Ku-Band, Dual Polar VSAT Transceiver



### DRU 17F16X

Model DRU17F16X  
Ku-Band VSAT transceiver  
offers complete flexibility  
for global applications



Skyware Technologies introduce the DRU17F16X 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 standard 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, standard 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 DRU17F16X 7 Watt Standard 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					
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)

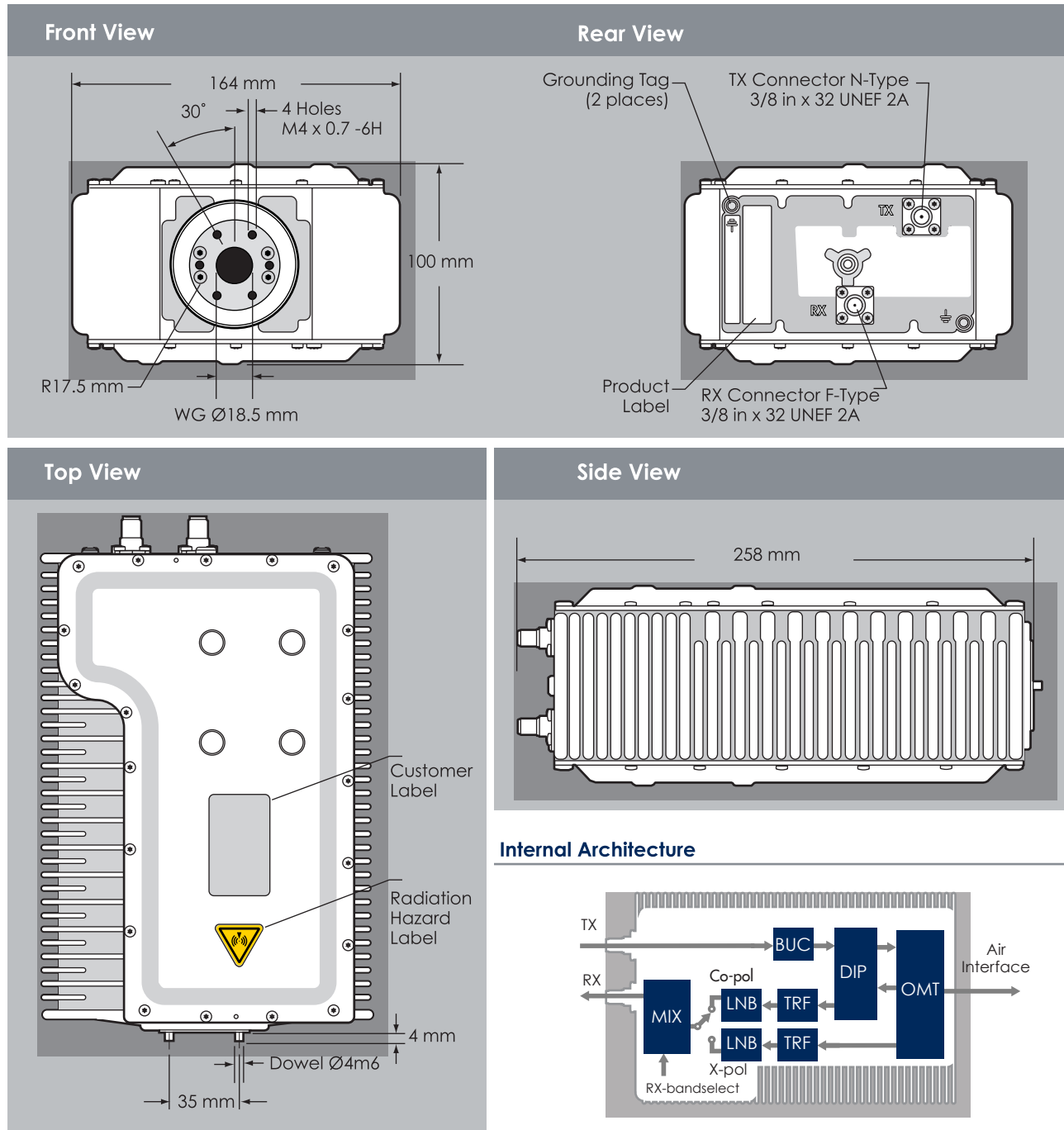
Parameter	Minimum	Typical	Maximum	Unit	Note
RF Output Power					
IF Input Frequency Range	950		1450	MHz	
RF Output Frequency Range	14.0		14.5	GHz	
Local Oscillator Frequency (Nominal)		13.05		GHz	
Local Oscillator Phase Noise (SSB)					
Local Oscillator Reference Frequency		10		MHz	Sine Wave
RF Output 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					
IF Output Frequency Range					
Local Oscillator Frequency, Nominal					
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	+12			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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