

Satellite Transceiver

Ka-Band 10W



◆ Company Overview

RevGo designs and manufactures satellite earth station RF from low to medium power. RevGo was founded in 2002 with its headquarters in the Washington DC corridor. RevGo's broad VSAT product line is produced to stringent quality standards using an ISO9001:2015 quality system.

- Transceiver integrates 1xBUC, 1xLNB and an OMT (rejection filters)
- Block up converter (BUC)
- Low noise block (LNB)
- C-, Ku-, DBS-, Ka-bands
- 3 to 1000W output power



◆ Reliability

- Highly integrated RF technologies
- Designed for high volume production
- Linearity optimized for high order modulation and high data rate
- Strict quality control processes resulting in <0.25% field failure rates

◆ Product Features

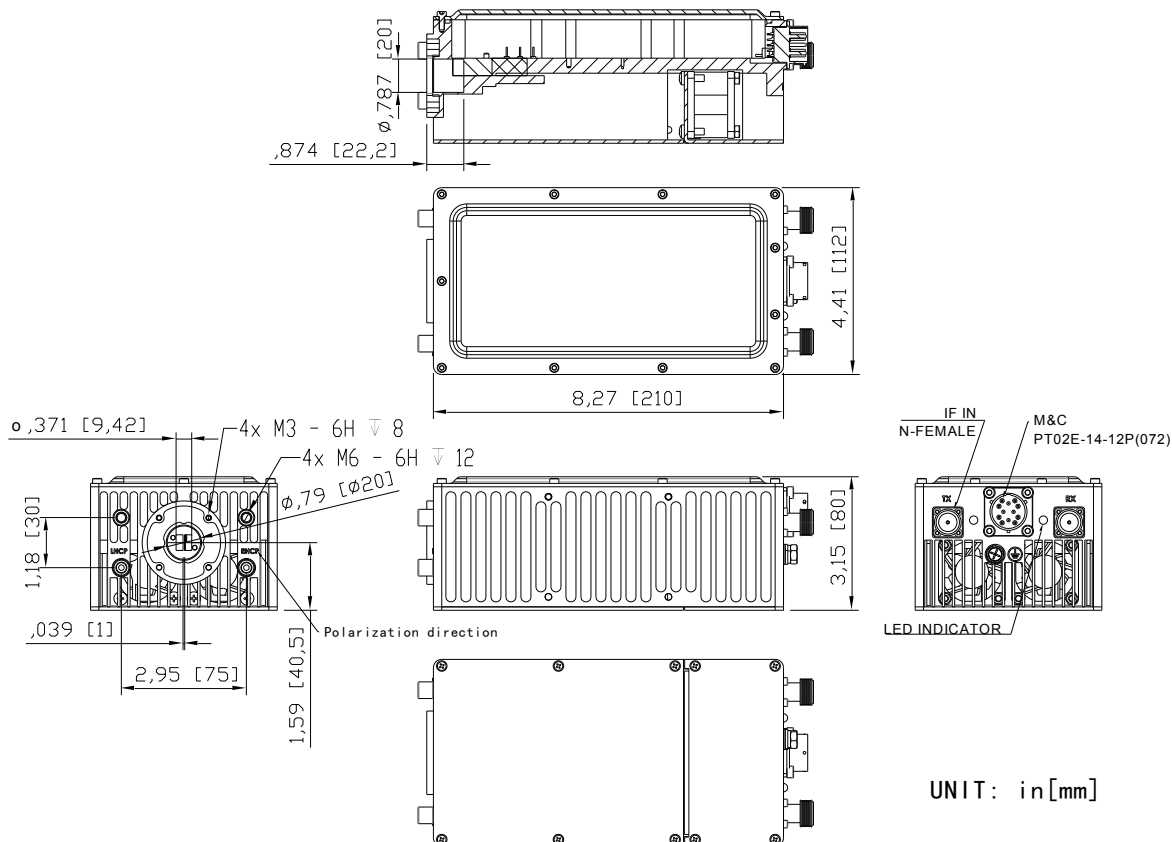
10W

- Variable power consumption 70W @40 dBm
- Compact and light weight 210x112x80 mm
- IFL input power
- Rugged design for extreme environments (-40 to +60°C)

◆ Typical VSAT Applications

- Maritime
- 5G Backhaul
- Terminals
 - Portable
 - Transportable

◆ Mechanical Diagram (Unit: inch [mm])



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SPECIFICATIONS

◆ Tx Specifications

Tx RF Frequency	27.50-31.00 GHz
	27.50-30.00 GHz (optional)
IF Input Frequency¹	1400-2400 MHz
LO Frequency [GHz]	26.10 26.85 27.60 28.60
IF Input Frequency²	950-1950 MHz (optional)
LO Frequency [GHz]	26.55 27.30 28.05 29.05
Ref Signal Type	10 MHz external ref
External Reference	10 MHz, 0±5 dBm
Output Power	10W
Rated/Saturated	40 dBm
Plin¹	39 dBm
Plin²	37 dBm
Small Signal Gain	70 dB (55-70 dB, Step by 0.1 dB)
Gain Flatness	3 dB p-p/500 MHz
	4 dB p-p/1000 MHz
Gain stability	3 dB p-p
Phase Noise	≤ -63 dBc/Hz @100 Hz
	≤ -73 dBc/Hz @1 KHz
	≤ -83 dBc/Hz @10 KHz
	≤ -93 dBc/Hz @100 KHz
Output Spurious	-55 dBc

◆ Physical Parameters

Size (inches)	8.26*4.40*3.14
(mm)	210x112x80
Weight (lbs)	6.61
(kg)	3.0

◆ Power Supply

Input Power	18 - 55 VDC
Power Consumption	10 W
Prated	70 W

◆ Rx Specifications

Rx Frequency	Quad-band (4 LOs)	Tri-band (3 LOs)
	17.70-18.70 GHz	17.70-18.70 GHz
	18.45-19.45 GHz	18.45-19.45 GHz
	19.20-20.20 GHz	19.20-20.20 GHz
	20.20-21.20 GHz	(optional)
Output Frequency	950-1950 MHz	
LO Frequency	16.75 GHz & 17.50 GHz	
switched by M&C	18.25 GHz & 20.25 GHz	
LO Stability	±1 ppm (Internal Ref)	
Noise Figure	1.5 dB typ.	
P-1dB	10 dB min.	
Gain	60 dB	
Gain Flatness	1 dB p-p / 36 MHz	
	5 dB p-p / 1000 MHz	
Image Rejection	40 dB @ 16.75 GHz	
	20 dB @ 19.25 GHz	
Phase Noise	≤ -75 dBc/Hz @1 KHz	
	≤ -85 dBc/Hz @10 KHz	
	≤ -95 dBc/Hz @100 KHz	

Operating Temp	-40 to +60 °C
Humidity	0-100% (condensing)
Altitude	0-10,000 feet ASL
protection	IP67

◆ Interfaces

IF Connector	N-Type (50 Ω), F-Type (75 Ω) optional
MS Connector	4-Pin for Power supply
PT02E-14-12P(072)	8-pin for M&C (RS485, Ethernet)

◆ Part Number / Ordering Information

RGTR-Aabb-cA01-CMXN-Cd

a: Output RF Frequency	bb: Output Power
Q= 27.50-31.00 GHz	10= 10W
T= 27.50-30.00 GHz	20= 20W
c: Input RF Frequency	d: IF Input Frequency
Q= 17.70-21.20 GHz	0= 1400-2400 MHz
T= 17.70-20.20 GHz	1= 950-1950 MHz

◆ Contact Information

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