



The TX-2400 is a proven satellite and launch vehicle S-Band transmitter with built in FM/FSK modem for downlink of payload data and telemetry. The TX-2400 has been a workhorse for SpaceQuest's own satellites and a mainstay of our customers for over a decade.

KEY HIGHLIGHTS:

- 16 Pre-configured Channels
- FM or FSK Modulation
- Variable Data Rates from 56 Kbps to 6 Mbps
- Low Mass, Power Efficient Design
- CubeSat Compatible



PROVEN DESIGN

The unit provides a downlink to terrestrial ground stations with the link carrying mission data and telemetry data. Rigorous testing has verified the transmitter will withstand the shock, vi-bration, temperature extremes and the vacuum of space with minimized outgassing.



HIGH RELIABILITY

The TX-2400 is an FM (Frequency Modulated) GMSK transmitter S-Band transmitter. The unit is a highly reliable space-qualified module for integration into spacecraft, which operates with stable, low power requirements. The transmitter is also qualified to withstand a 100g shock and 100g acceleration while operating.



HERITAGE

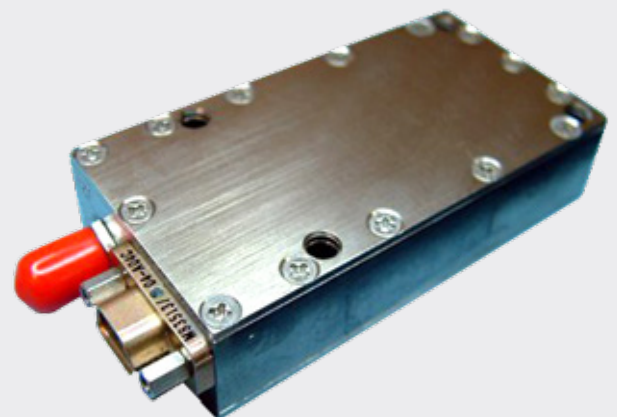
This space-qualified component and its predecessors have flown on numerous space missions and is particularly well suited to missions requiring high performance under extreme conditions. The unit has a proven track record in space with a baseline design heritage going back more than 15 years.

TECHNICAL SPECIFICATIONS

General	
Frequency	2000 MHz to 2400 MHz
Transmit Power:	1.0 - 2.5 Watts (5 and 10 Watts Available with TX-2400M-HP)
Data Rate:	56 Kbps to 6 Mbps
Modulation:	FM, FSK
Channels:	Up to 16 Channels, Selectable On Orbit in 25 KHz Steps

Electrical and RF Specifications	
Input Voltage:	8 to 32 Volts DC
Current:	800 mA Maximum (2.4 Watts Version)
Power Connector:	MDM 9S Mounted to Enclosure
Power Return:	Power and Modulation Return Common to Chassis
Frequency Stability:	$\pm .002\%$ (-20°C to $+50^{\circ}\text{C}$)
Distortion:	1% Max
RF Output Impedance:	50 Ohms Nominal
RF Output Connector:	SMA Female
Reverse Polarity:	Protected
VSWR:	1.5:1

Mechanical and Environmental	
Mass:	70 grams
Size:	68 mm x 35 mm x 15 mm
Operating Temperature:	-20°C to $+70^{\circ}\text{C}$
Storage Temperature:	-30°C to $+80^{\circ}\text{C}$



To make an enquiry, request a quotation or learn about AAC Clyde Space's other products and services, please contact:
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