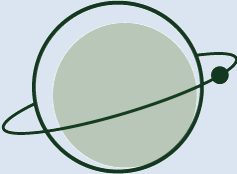


The RFX-400 provides a cost effective, extremely small form-factor UHF transceiver for spacecraft communication. It supports multiple modulation formats, encryption algorithms, and data protocols. It features very low power standby mode, digitally tunable frequency, and variable power output up to 8.1W. Applications include ground terminals, cubesat RF modules, and ground gateway stations.

<b>RFX-400</b>			
<b>UHF Transceiver</b>		<b>Electrical</b>	
Frequency Range	387 – 464 MHz (90µsec settling time)	Input Voltage	7.5 – 18V
Sensitivity	-122dBm	Power	<800µW Standby 200mW Receive 225mA @ 1W Transmit
Output Power	<1mW to +8.1W digitally adjustable		
Data Rate	1.2 – 500 kbps	<b>Mechanical</b>	
Modulation	2-FSK, GFSK, MSK, OOK, and flexible ASK shaping	Format	1.8"Lx2.8"Wx0.75"H
Telemetry	Digital RSSI PA Temperature	Mass	approx. 53 grams
Antenna Connector	SMA		
<b>Data Interface</b>		<b>Additional Features</b>	
I/O Format	RS-232, RS-422, LVDS, TTL	Encryption (FPGA)	DES AES
I/O Protocols	Asynchronous Synchronous	Encryption (H/W)	Type-I (under development)
Data Formats	Packetized or continuous stream	Custom Capabilities	<ul style="list-style-type: none"> <li>User-specific FPGA resources</li> <li>Custom data processing software</li> </ul>
Error Detection	CRC on packets Available FEC	Additional Modules	
		AIS Rx (2 ch)	ITU-R M.1371-1 Compliant 161.975 MHz and 162.025 MHz
 <p>Tiger Innovations 12355 Sunrise Valley Drive, Suite 45, Reston, VA 20191 – 703.391.0060 <a href="http://www.tigerinnovations.com">www.tigerinnovations.com</a> – <a href="mailto:info@tigerinnovations.com">info@tigerinnovations.com</a></p> <p><b>contact us for a quote or additional customization options</b></p>			
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