

NEWSPACE MARKET · COMPANY PROFILE



Tiger Innovations, Inc.

United States · founded 1997 · tigerinnovations.com

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as of 20 August 2026



Tiger Innovations, Inc.

Tiger Innovations, Inc. is a US aerospace electronics company founded in 1997 by Rob Atkin and headquartered in Herndon, Virginia. The company is a high-technology small business with a broad range of experience in specialty hardware, software, and computer architecture design and implementation for spacecraft and satellite ground systems. Tiger Innovations' primary focus is satellite systems and related support equipment, including solar array simulators, RF transceivers, electrical ground support equipment (EGSE), integrated spacecraft avionics (the Integrated Electronics Module, flown on STPSat-1), CubeSat electronics, and the StreamLINK command-and-telemetry ground control software. The company supports the DoD, intelligence community, and other US Government agencies with hardware design, systems engineering, consulting, and payload integration and test services, with flight heritage on missions including STPSat-1, TSX-5, and NISTAR/Triana. In February 2021, Tiger Innovations was acquired by General Atomics Electromagnetic Systems (GA-EMS), expanding GA's space technology portfolio with Tiger Innovations' low-SWaP satellite and space systems expertise.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

development of ground support equipment

Tiger Innovations develops ground support equipment, from simple testing units to complex TCP/IP-based systems.

hardware and software design and implementation

Tiger Innovations designs and implements hardware and software for real-time embedded systems and custom software/COTS product integration.

Integration and Test efforts

Tiger Innovations offers integration and test services, contributing to projects quickly and efficiently.

systems engineering support

Tiger Innovations provides systems engineering support to projects.

Product catalogue



TIGER INNOVATIONS, INC.
CubeSat 0.5U Electronics Package

Compact, P-POD-compatible CubeSat avionics and power package combining C&DH, EPS, RF communications, and I/O boards in only 5 cm of height.

Electronics Package Height	5 cm (0.5U)
Board Set	C&DH, EPS, RF Communications, Interface I/O
Form Factor Compatibility	P-POD compatible
Environmental Qualification Standard (planned)	GSFC-STD-7000
Regulated Voltage	5V @ 2A; 3.3V @ 2A
Solar Array Inputs	4, with peak power tracking, 10W
Shunt	Dissipates excess power

[price on request](#) [datasheet](#)



TIGER INNOVATIONS, INC.
Integrated Electronics Module (IEM)

Modular, radiation-hardened spacecraft avionics suite combining C&DH and EPS functions, with flight heritage on STPSat-1.

Power Consumption	24 Watts
Mass	< 5.25 kg
Size	7" x 7.125" x 4.437"
Processor	RAD-750
Analog Signals	56
Digital I/O	64 Discrete I/O, 12 RS-422 pairs
Communication Ports	Up to 12 full duplex serial ports

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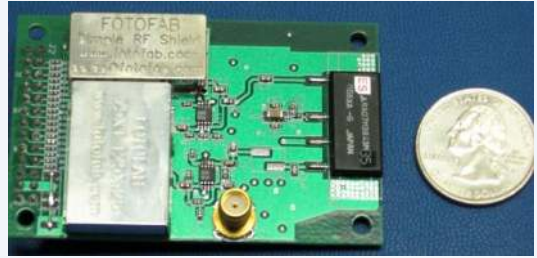
TIGER INNOVATIONS, INC.

Integrated Test Rack (ITR) / Ground Support Equipment

Turn-key, modular EGSE rack for spacecraft command, control, and integration and test, running Tiger Innovations' StreamLINK software.

Rack Format	19" shock-mounted rack, up to 32U
Typical Components	Frame Sync Box, SC Control Box, Solar Array Simulator, GPS time sync, power supplies, UPS
Frame Sync Time-Tagging Accuracy	1 microsecond
Frame Sync Data Rate	DC through 4 Mbit/second
Backend Processing Delay	5 - 15 ms
Telemetry Throughput	~2000 packets/second (1000-byte frames)
Computers	2 rack-mounted Linux PCs (frontend + backend); optional RAID-5 NAS

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TIGER INNOVATIONS, INC.

RFX-400

The RFX-400 is a cost-effective, extremely small form-factor UHF transceiver designed for spacecraft communication, supporting multiple modulation formats, encryption algorithms, a

Frequency Range	387 - 464 MHz (90 usec settling time)
Sensitivity	-122 dBm
Output Power	<1mW to +8.1W, digitally adjustable
Data Rate	1.2 - 500 kbps
Modulation	2-FSK, GFSK, MSK, OOK, flexible ASK shaping
Telemetry	Digital RSSI, PA Temperature
Antenna Connector	SMA

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TIGER INNOVATIONS, INC.

Solar Array Simulator (SAS)

Rack-mount EGSE that simulates spacecraft solar arrays with individually controllable IV curves for satellite integration and test.

Number of Channels (4U base)	8 - 16
Number of Channels (6U base)	8 - 24
DC Input Power (4U)	0 - 20A @ 5 - 60V from external supply
DC Input Power (6U)	0 - 60A @ 5 - 60V from external supply
Current Range (4U)	0 - 3 A per channel
Current Range (6U)	0 - 8 A per channel
Open Circuit Voltage	0V - 55V, adjustable per channel

[price on request](#) [datasheet](#)

Contact Tiger Innovations, Inc.

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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