

APTOS

Turn Satellites into Cloud Nodes

A space-hardened edge compute and connectivity platform that turns satellites into persistent cloud nodes.



APTOS

cEDGE Terminal

Persistent comms

Global coverage for real-time intelligence without disruptive pointing or pass planning.

Cloud services

Certified integration with AWS, Azure, and others make it possible to extend clouds to space.

Onboard AI

Space-hardened edge computing platform for running powerful AI onboard satellites.

Regulatory & export

FCC or ITU licensing support included. Terminal is made in USA and not subject to ITAR restrictions.

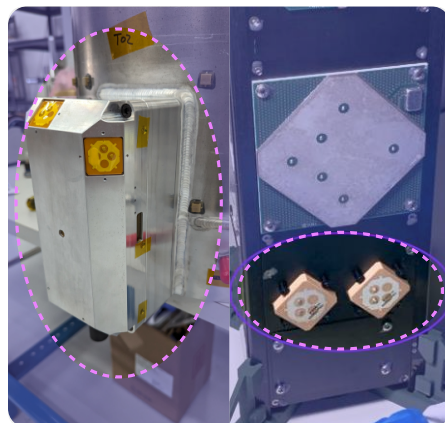
Global coverage

Consistent coverage from SSO to Equatorial



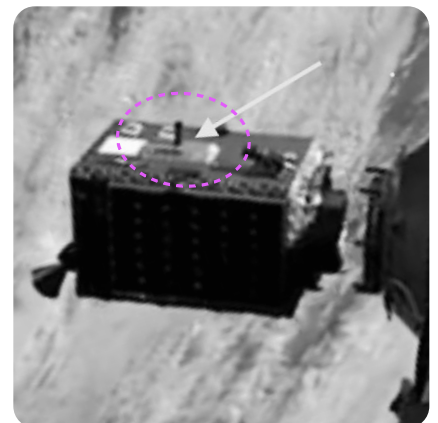
Plug and Play

CubeSats to ESPA to 500kg



Flight Proven

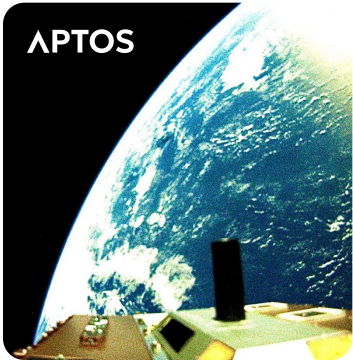
Over 5 years processing in space



HARDWARE (UNITS)	OEM	MINI	MAX
Dimensions (cm)	9x9.5x1.5	10x9x5	10x24x7
Mass (g)	225	500	1300
Power (W OAP)	2	3	5
Input Voltage (V)	10.5V - 40V		
Readiness level	TRL-9 (flight proven)		
Radiation Design	5 years LEO		
Environment	RPUG Qualified, SEU/SEL hardened, bit-flip protection, doppler correction		

NETWORK & DATA	OEM	MINI	MAX
Daily Data Volume*,**	Up to 10 MB	Up to 10 MB	Up to 15 MB
Latency	2-20 sec		
Availability	99.9% global coverage		
Interfaces	Ethernet, RS232/422 (heritage); LVDS, USB2/3, CAN, UART, I2C, SPI, MIPI, CSI, BT, WiFi (available)		

COMPUTE	SPECIFICATION
CPU architecture	ARM v8 64-bit
GPU speed	8 TOPS
Memory	8 GB
Storage	1 TB
OS	Linux
ML frameworks	PyTorch, TensorFlow, Keras (modified to auto-correct radiation events)



Aptos Terminal in space

CLOUD	DETAILS
Integrations	AWS, Azure, NVIDIA, IBM, GCP, custom
AWS on satellite	Greengrass, Lambda
AWS on earth	IoT Core, S3, DynamoDB, CloudWatch, SNS, SageMaker
Alerts	Email, SMS, Slack, custom

* Multiple units can be added per spacecraft for additional throughput

** This info is based on hardware capability. Actual speeds and connectivity in orbit may vary, and are affected by factors including equipment configuration, orbital parameters, and network congestion.