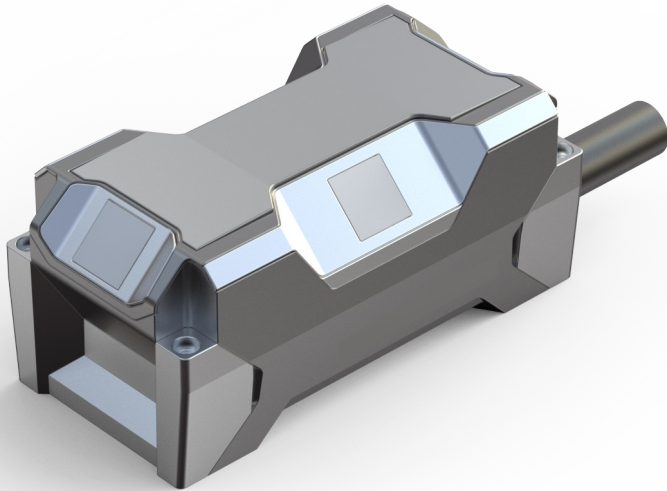




Aptos Terminal



The Aptos Terminal is a fully integrated device for satellites that combines constant connectivity, edge AI, and the cloud. It makes satellites as intelligent and accessible as computers on earth, and extends modern cloud capabilities to space.

Persistent comms

99.9% global coverage for real-time intelligence without disruptive pointing or pass planning.

Onboard AI

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

Cloud services

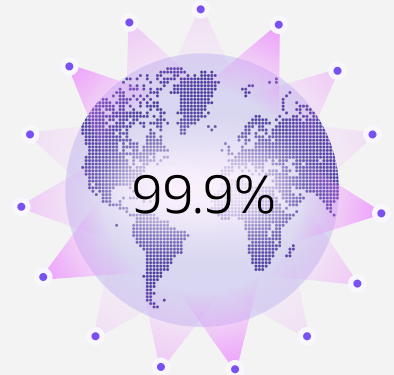
Native integration with AWS, Azure and others, for turning satellites into orbital nodes for existing clouds.

Regulatory & export

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

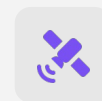
Global coverage

No pointing or pass-planning.

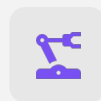


Edge AI

Advanced ML/AI on satellites.



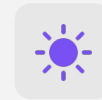
Satellite
retasking



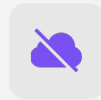
Robot
control



Orbital
assembly



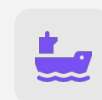
Space
weather



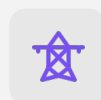
Cloud
detection



Disaster
alerts



Vessel
tracking



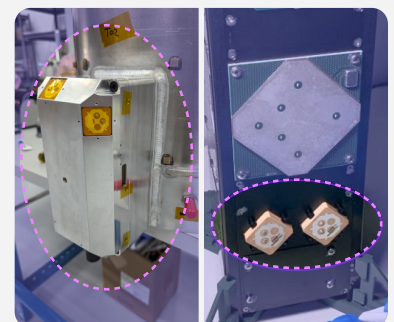
RF
monitoring



& much
more

Flight heritage

Over 5 years processing in space.



Gen 1 Max

Gen 1 OEM

General	Mini	Max	OEM
Dimensions	10x9x5 cm	10x24x7 cm	9x9.5x1.5 cm
Mass	500 g	1600 g	225 g
Power (OAP)	3.5W	10W	2W
Voltage	10.5V reg/unreg	18V reg/unreg	10.5V reg/unreg
Readiness level	TRL-9		
Design total dose	5 years LEO		
Features	SEU/SEL hardened, bit-flip protection, doppler correction		

Data

Daily rate	4 MB	600 MB	4 MB
Latency	2-20 sec		
Availability	99.9%		
Interfaces	Ethernet, LVDS, USB2/3, CAN, UART, 12C, SPI, MIPI, CSI, BT, Wifi		

Compute

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)		

Cloud

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		

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