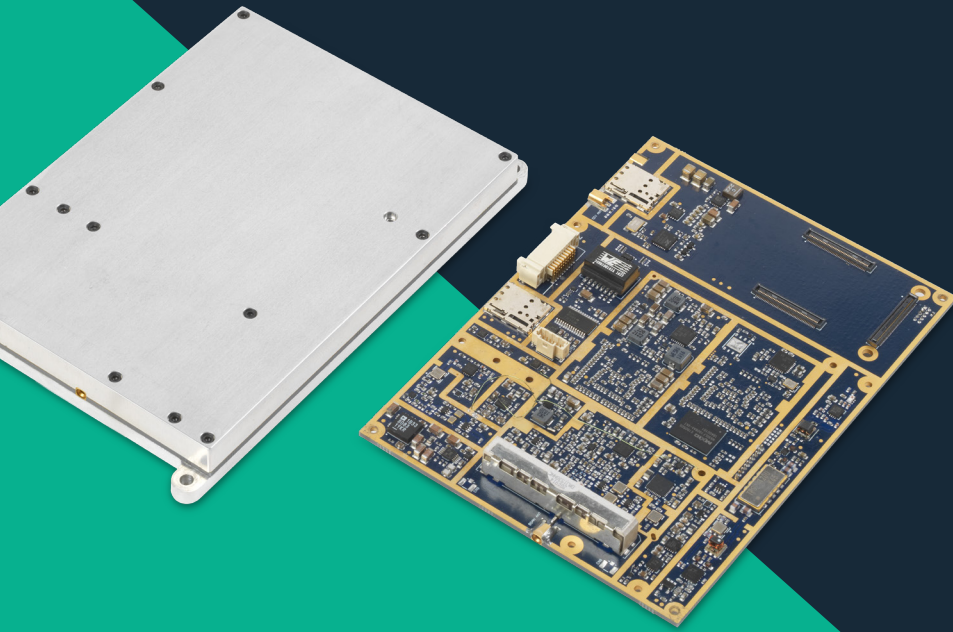


Velaris Multi-link Module

Ultra Compact Satcom and
Cellular UAV Terminal with
Edge Compute

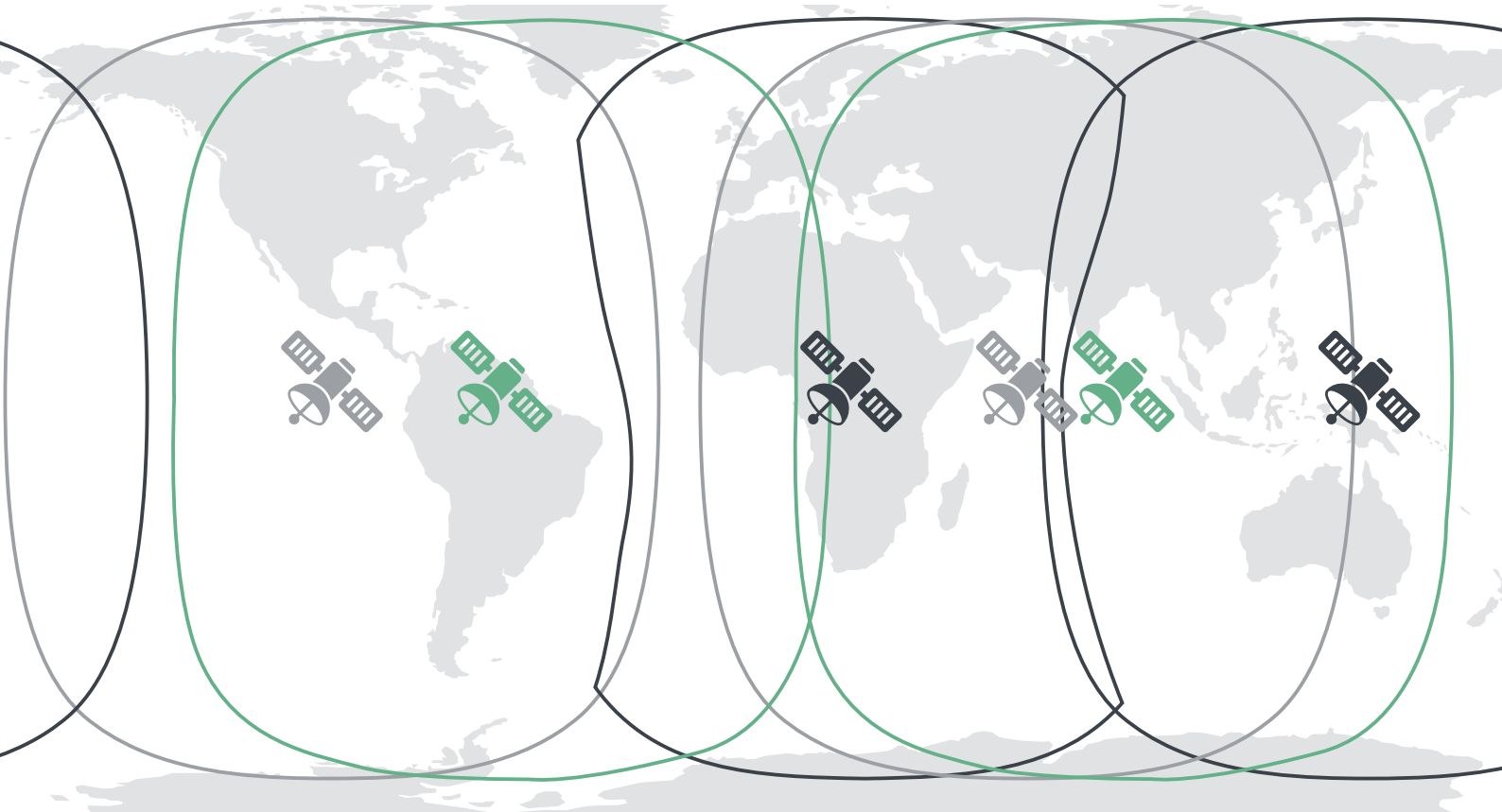


A complete low SWaP-C modular BGAN satellite and LTE data unit, with integrated edge compute, for use with Viasat Velaris data services for lightweight UAV applications. Data rates of up to 200kbps possible across the Viasat L-Band satellite network.



Key features

- Low Size: 140mm x 95mm x 15mm tall
- Low Weight: 230g
- Low Power: 18W average
- Data rates up to 200kbps (Viasat Class 4)
- Operational as a Class 4 terminal with current network. For full Viasat Velaris coverage software upgradable to Class 16
- SOM module enabling edge processing
- Integrated GNSS receiver



Velaris Multi-link Module	Specification		
Dimensions:	Height:	15mm	0.6"
	Area:	140 x 95mm	5.5 x 3.7"
	Weight:	230g	8.1 oz
Power (average):	Network idle:	0.65W	
	Receive:	3.7W	
	Average power consumption:	17.8W	
	Peak power consumption:	27.5W	
Antenna:	External Viasat approved antenna External LTE antenna		
BGAN Class:	Class 4 (to 200kbps) between 20° & 90° elevation Class 16* (to 130kbps) between 5° & 90° elevation		
Power supply	Input: 18 – 36V DC Baseline: suitable for operation directly from 6s and 8s LiPo battery packs or regulated 28V avionics supply		
RPAS interface	DC power supply and Ethernet data connection: Samtec T1M-10-GF-DH BGAN RF: SMPM female LTE RF: SMPM female		
	Built in routing rules for BGAN and LTE traffic mapping		
Software interface	RESTful API AT interface On device Web GUI		
RF frequencies	L-Band: 1518 – 1559 MHz, 1626 – 1675 MHz GNSS systems operating: 1575.42 MHz LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28; LTE-TDD: B38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM: B2/3/5/8		
SoM and LTE	NXPi.MX 8M MINI application processor SOM module enabling edge processing		
	Cat 1 LTE worldwide coverage cellular module		

* Expected performance

Block diagram

