ALL.SPACE

ALL.SPACE's strategic integration partnership with ST Engineering iDirect secures a fully integrated iDirect 950mp board satellite modem that runs across multiple iDirect platforms to enrich commercial and government networks globally, enabling concurrent connections in the harshest environments to achieve highly resilient, multi-domain, multi-orbit communications.

Markets and Applications

Government / Defence

Maritime / Mobility

ST Engineering iDirect 950mp

Integrated Board Satellite Modem

The 950mp Board Satellite Modem is optimise for size, weight, and power (SWaP) with a 30% reduction than its predecessor. Lightweight and power-efficient, the 950mp is designed for integration into highly portable COTM solutions. The 950mp has been industrialised to MIL-STD 810G requirements for extreme operational conditions. This energy efficient modem board builds off of existing transmit keyline capabilities that improve battery performance. The 950mp includes increased memory to support multiple software images for ease of upgrade.

Key Features

✓ DVB-S2 up to 45 Msps

✓ Adaptive TDMA up to 29 Msps

✓ Extremely compact
Ideal for both fixed and mobility applications

✓ FIPS 140-2 Level 3 Certified (#3056) TRANSEC module (E0002268)

✓ Extended frequency ranges for WGS constellations

ST Engineering iDirect 950mp Specifications

Network Configuration

Network Topology Evolution and iDirect Velocity Compatible	DVB-S2 with Adaptive TDMA returns (STAR)	**Receive**	**Transmit**
		DVB-S2 / ACM	Adaptive TDMA
Modulation		QPSK, 8PSK, 16APSK, 32APSK	BPSQ, QPSK, 8PSK, 16QAM
FEC		LDPC 1/4 - 8/9	2D 16-State 1/2 - 6/7
Max Rates	Symbol	45 Msps	29 Msps
Spread Spectrum	Spreading Factor		2, 4 ,and 8
	Max Chip Rate		29 Mcps

Interfaces

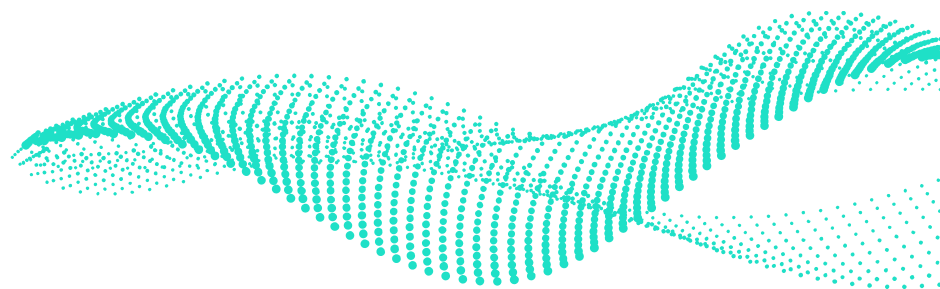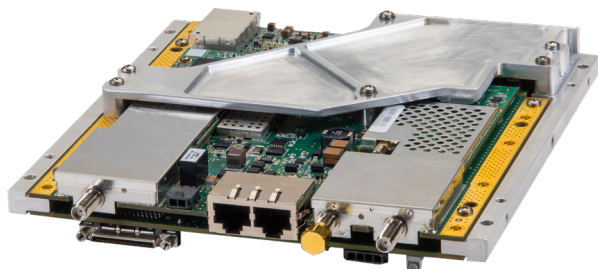| **SatCom**	Transmit (Out)	SMA, 950-2400 MHz; +5dBm/-35dBm, 50 Ohm
	Receive (In)	SMA, 950-2150 MHz; -5dBm (max) composite, 50 Ohm
	Receive Reference Port (Out)	SMA, 50 Ohm
Data and M&C	LAN	Dual 10/100/1000 Mbps Ethernet
	Console	RS-232
	Auxiliary Interfaces	RS-232 Serial NEMA GPS Input; RS-422 Keyline, RS-422 BUC control, RS-422 Filter Select
Protocol Supported		Antenna Control Interface OpenAMIP, OpenBMIP, TCP, UDP, ICMP, IGMP, RIP v2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, , cRTP and GRE
Security		AES Link Encryption (256-bit), TRANSEC module (E0002268), FIPS 140-2 Level 3 Certified (#3056), x.509 Digital Certificates, Automatic Key Management, CSIR, SHIELD

Mechanical / Environmental

Operating Temperature	-40C to +60C
Input Voltage	+12V to +24V
Power Consumption	<20 Watts
Compliance	MIL-STD 810G, RoHS

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