



ALL.SPACE 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.

## ST Engineering iDirect 950mp

### Integrated Board Satellite Modem

The 950mp Board Satellite Modem is optimized 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 industrialized 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.

#### Markets and Applications



Government / Defense



Maritime / Mobility

#### 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

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

## Interfaces

<b>SatCom</b>	Transmit (Out)	SMA, 950-2400 MHz; +5dBm/-35dBm, 50 Ohm	
	Recieve (In)	SMA, 950-2150 MHz; -5dBm (max) composite, 50 Ohm	
	Recieve Reference Port (Out)	SMA, 50 Ohm	
<b>Data and M&amp;C</b>	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

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

