

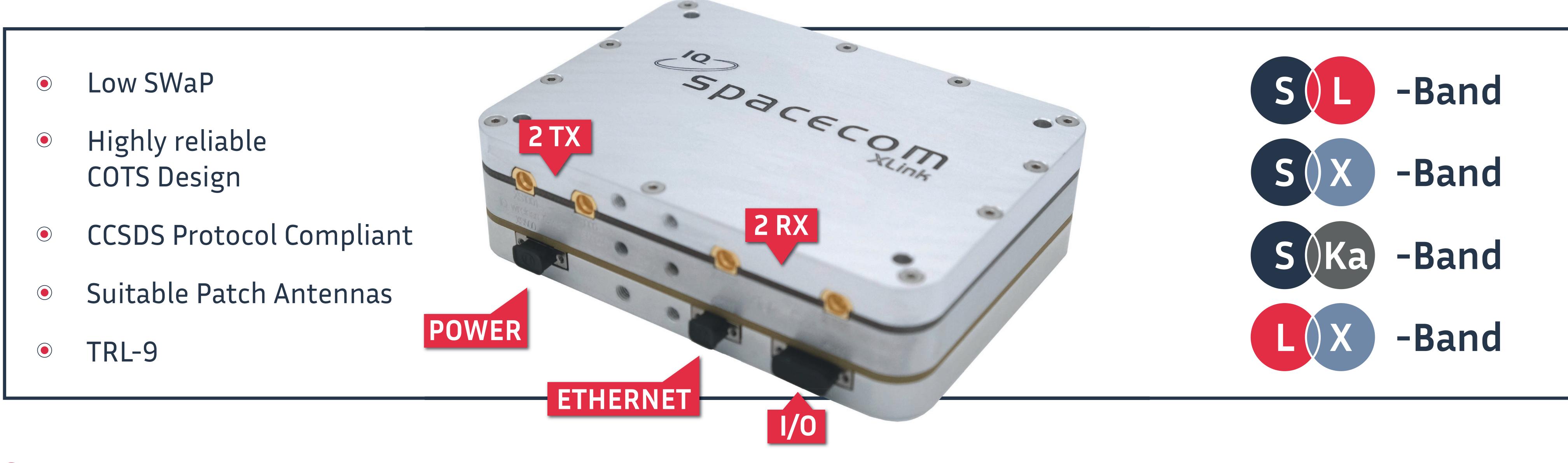


PIONEERING MULTI-BAND COMMUNICATION FOR SMALLSATS:

OVERCOMING TECHNICAL BARRIERS WITH INNOVATIVE SOLUTIONS

	L-Band	S-Band	X-Band	Ka-Band	
	1.518 GHz - 1.675 GHz	2.025 GHz - 2.290 GHz	7.145 GHz - 8.500 GHz	25.5 GHz - 27.0 GHz	

Communication links are required to be more flexible and more efficient. A multi-band, multi-protocol, and multi-way communication architecture for telemetry/telecommand (TM/TC) functionalities as well as high-speed-data-rate broadband payload transmission is shown. The focus is set on **hybrid configurations** such as S-Band transceivers paired with X-Band transmitters and combinations of S- and Ka-Band systems, which offer enhanced operational flexibility. Such solutions will be provided in a compact single unit for efficient communication.



•SPI

UART

CAN

System Parameters

Low Power Consumption: **Data Rate Tx:** 11 W (Tx + Rx)2 kbps ... 200 Mbps DC Supply Voltage: Data Rate Rx: 6 - 18 V / 28 V 2 kbps ... 4 Mbps **Ultra Small Size: Linear RF Output Power:** 90x65x25 mm³ 2x up to +30 dBm200 grams

