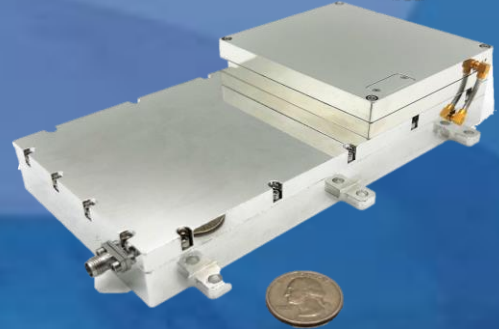


# NSR-SDR-X/S-HP Transceiver (TC/TM)



## Features:

- Full Duplex with integrated filters
- Coherent turn around mode
- 10.0Watts Linear RF Transmit Power
- NASA NEN, SSC Space (USN), K-Sat
- NSA TSAB (Type-1) Encryption Option
- LEO, MEO, GEO, Cislunar and Lunar Surface Application



Specification	Value	Comment
Tx Power 7900-8400MHz	10W Linear RF 0.25dB steps	Integrated filters
Waveforms -Tx	OQPSK (20Kbps-20Mbps)	FEC: CC1/2, LDPC, Turbo, Others
-Rx	BPSK (2Kbps-2Mbps)	SSC-USA, K-Sat, AWS, Others
Rx 2025-2118MHz	-127dBm/1W DC 10Hz stepping across band	Full Duplex Low Phase Noise
Data Framing	CCSDS TM/TC (NEN), Coherent Turn Around, Ranging, PNT	Others available 256Gbyte Internal Data Storage Memory
I/O	Ethernet	RS-422, UART (6Mbps), Others available
Telemetry	Temperature(s), Voltages, Current	
DC Power	28Volts Input	12Volt Option
Encryption (AES 256)	<ul style="list-style-type: none"> <li>• No Encryption (Non-ITAR)</li> <li>• Software Based</li> <li>• NSA TSAB (Type-1) Embedment</li> </ul>	ITAR ITAR
Mechanical	<ul style="list-style-type: none"> <li>• 92x183x36mm, 700grams</li> </ul>	
Environmental	<ul style="list-style-type: none"> <li>• Full Specs -25C to 65C</li> <li>• NASA GEVS 7000</li> </ul>	30K rad TID SEU Recoverable 5 year mission