

NSR-SDR-K/Ka-HDR Transceiver



Features:

- Full Duplex Radio Subsystem
- 5Watts Linear RF Transmit Power
- SSC Space (USN), K-Sat, Safran HDR
- Embedded TSAB Encryption (Option)



Specification	Value	Comment
Tx Power MHz 20- 21.2GHz	5W RF/50W DC 0.25dB steps	Integrated filters,
Waveforms -Tx -Rx	DVB-S2(X), >500Mbps, OQPSK, QPSK, 8PSK, 16APSK, 32APSK BPSK, QPSK, MPSK, Others, 1K- 500Mbps, PCM/PSK/PM	Optional FEC: CC1/2, LDPC, Turbo, Others SSC-USA, K-Sat, AWS, Others
Rx 30-31GHz	DVB-S2(X), >500Mbps, OQPSK, QPSK, 8PSK, 16APSK, 32APSK BPSK, QPSK, MPSK, Others, 1K- 500Mbps	Full Duplex Low Phase Noise
Data Framing	CCSDS TM/TC (NEN), MC3, DVB-S2, Coherent Turn Around, Ranging, PNT	Others available
Time Transfer	SDA Two-way-Time-Transfer (TWTT)	
I/O	RS-422, UART, Ethernet (TCP/IP)	Others available
Telemetry	Temperature(s), Voltages, Current	
DC Power	12Volts Input	28Volt Option
Encryption	• TSAB AES-256 GCM NCS Mode	Interoperable with NCS KGR-42, KG-255XJ (Future)
Mechanical	• 82x92x31mm, 400grams	
Environmental	• Full Specs -25C to 65C • NASA GEVS 7000	30K rad TID SEU Recoverable, 5 year