

SCR-104

S-Band Software-defined Compact Radio (SCR)

Uplink Frequency: L-Band / S-Band

Downlink Frequency: S-Band

Form Factor: CubeSat or SmallSat

Flight Heritage Year: 2019



cyber secure space avionics



SCR-104

**S-Band Software-defined
Compact Radio (SCR)**



OVERVIEW:

On-Orbit Configurable

USB and AFSCN SGLS Support

Ranging Support (PN / PRN)

KEY CHARACTERISTICS:

Uplink Frequency: L-Band / S-Band

Downlink Frequency: S-Band

RF Power: Up to 2 W

Downlink Data Rate: 4.5+ Mbps

Modulation: BPSK, QPSK, OQPSK

Options:

AES-256 (Commercial) or KI-103 (Type 1) Encryption

Diplexer / Splitter

10-20 W High Power Amplifier (HPA)

SIZE, WEIGHT & POWER (excluding options):

CubeSat: 82 x 82 x 25 mm / 230 g / 3-15 W

SmallSat: 98 x 82 x 33 mm / 290 g / 3-15 W

TECHNOLOGY / MANUFACTURING READINESS LEVEL (TRL / MRL):

TRL: 9 / **MRL:** 10

Flight Heritage: Since 2019

