

SCR-106 SCR-106HDR

X-Band Software-defined Compact Radio (SCR)

Uplink Frequency: L-Band / S-Band

Downlink Frequency: X-Band

Form Factor: CubeSat or SmallSat

Flight Heritage Year: 2022



cyber secure space avionics



SCR-106 / SCR-106HDR

X-Band Software-defined
Compact Radio (SCR)



OVERVIEW:

On-Orbit Configurable

Ranging Support (PN / PRN)

KEY CHARACTERISTICS:

Uplink Frequency: L-Band / S-Band

Downlink Frequency: X-Band

Options:

RF Power: Up to 2 W

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

Downlink Data Rate: Up to 20 Mbps (SCR-106)

Downlink Data Rate: Up to 100 Mbps (SCR-106HDR)

Modulation: BPSK, QPSK, OQPSK, 8PSK

SIZE, WEIGHT & POWER (excluding options):

CubeSat: 82 x 82 x 25 mm / 230 g / 3.5-30 W

SmallSat: 98 x 82 x 33 mm / 290 g / 3.5-30 W

TECHNOLOGY / MANUFACTURING READINESS LEVEL (TRL / MRL):

TRL: 9 / MRL: 9

Flight Heritage: Since 2022

