

Model SAT1743-S

Multi-Function Tactical Wideband Interoperable Antenna System

CAES' Multi-Function Tactical Wideband Interoperable Antenna System will provide a flexible, high data-rate, transportable solution to the war fighter. As a critical Net-Centric ground link, the SAT1743-S will seamlessly provide Intelligence, Surveillance, and Reconnaissance (ISR) sensor information across the battle-space. The SAT1743-S provides Wideband Communications up to 274Mbps. GEN IV's "Floppable" forward and backward compatible architecture provide both LOS & BLOS via X/Ku-band CDL links as well as an additional Ku-band SATCOM link... all from a single aperture.

Features

- EIRP: Typical:>80 dBm
- GT: Typical:>14 dBi/Ko
- Received Signal Strength: -5 dBm
- Output Power, max: 50 dBm
- Output Power, normal operation: 40 dBm
- Side Lobes: <-14 dBc
- Axial Ratio: <2 dB
- HP Beam Width: Typical: 1.5° at 15.25 GHz
- Cross Polarization: >27 dB
- VSWR Feed: 2.0:1
- VSWR Antenna: 2.0:1
- Prime Power: 28VDC, 420W under typical operating conditions



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Mechanical

ANTENNA	<ul style="list-style-type: none"> Segmented 48 inches diameter parabolic reflector with 6 removable petals
WEIGHT	<ul style="list-style-type: none"> 245 lbs (excluding transit cases)
PEDESTAL TRAVEL RANGE	<ul style="list-style-type: none"> -4.5° to +85° EL, 360° continuous Az
STOWAGE	<ul style="list-style-type: none"> One tripod bag and 5 transit cases

Electrical / RF

Transmit X-Band STC-CDL FL

- Frequency : 9.75 - 9.95 GHz
- Polarization: RH/LH

Receive X-Band STC-CDL FL

- Frequency : 10.15 - 10.45 GHz
- Polarization: RH/LH

Transmit KU -Band STC-CDL RL

- Frequency : 14.4 - 14.83 GHz
- Polarization: RH/LH

Receive KU -Band STC-CDL RL

- Frequency : 14.4 - 14.83 GHz
- Polarization: RH/LH

Transmit KU-Band STC-CDL FL

- Frequency : 15.15 - 15.83 GHz
- Polarization: RH/LH

Receive KU-Band STC-CDL FL

- Frequency : 15.15 - 15.35 GHz
- Polarization: RH/LH

Transmit KU-Band NCDL IL

- Frequency : 14.54 - 14.79 GHz
- Polarization: RH/LH

Receive KU-Band NCDL IL

- Frequency : 14.54 - 14.79 GHz
- Polarization: RH/LH

Transmit KU-Band NCDL OL

- Frequency : 15.04 - 15.34 GHz
- Polarization: RH/LH

Receive KU-Band NCDL OL

- Frequency : 15.04 - 15.34 GHz
- Polarization: RH/LH

Transmit KU-Band Intelsat

- Frequency : 13.75 - 14.5 GHz
- Polarization: linear

Receive KU-Band Intelsat

- Frequency : 10.95 - 12.75 GHz
- Polarization: Linear