

AIRBUS

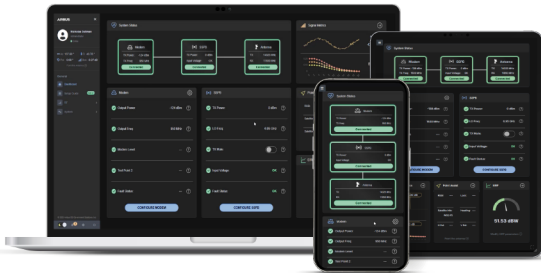
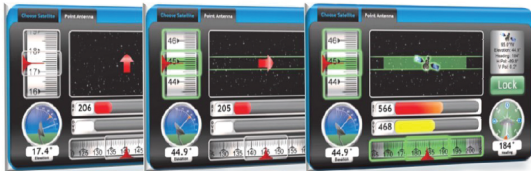
RANGER OUTDOOR UNIT (ODU)



The ruggedized Ranger ODU is universally compatible with all Ranger terminal models. This simplifies sparing costs for various modem packages and allows for seamless equipment interchangeability across terminals.

Featuring an intuitive Pointing Assistant (PA), the Ranger ODU empowers even novice SATCOM users to quickly and easily align their antenna with the desired satellite. The PA guides users through satellite selection and elevation settings via a tablet and GUI software. It then directs the user to the correct azimuth until a "LOCKED" icon appears, at which point fine-tuning for optimal gain and securing the antenna can be completed.

The Ranger ODU offers flexible configuration options, including multiple embedded modem choices or a modem-agnostic setup. Additionally, it can be optionally equipped with an integrated Spectrum Analyzer card for spectrum monitoring.



The Ranger ODU features the Ranger Integrated Control System (RICS), eliminating the need for advanced SATCOM expertise or experience with spectrum analyzers.

ODU OPTIONS	
Modems	
iDirect	950mp Integrated Router Board / 450 SDR Modem
Viasat	CBM-400 Modem Board
Comtech EF Data	DMD1050TS or SLM-5650C L-Band Satellite Modem Board
Teledyne Paradise Datacom	Q-Lite Satellite Modem Board
Newtec	MDM-3310 Modem Board
Color	White, Desert Tan, Green, Gray
Spectrum Analyzer	10Mhz and L-Band (Web Browser Based)
TX Variable Gain Amplifier (Optional)	0-30dB
RX Variable Gain Amplifier	0-30dB
Aux Output Power	+24VDC at 5A

Technical Specifications	
Input Power	+24VDC (through included AC/DC power supply) AC/DC power supply accepts 100-240VAC 47-63Hz
RX Port DC Availability	950mp: +24VDC at 1000mA CBM400: +13, +18, +20, +22VDC at 500mA 1050TS: +24VDC at 1000mA Q-Lite: +13, +15, +18, +20, +24VDC at 500mA Modem Agnostic: +24VDC at 1000mA (+24VDC at 3A for BUC)
10MHz Output Availability	950mp: 10/50MHz 0dBm -3/+4dB on TX and RX CBM400: -5 to +5dBm on TX and RX 1050TS: 3dBm $\pm$ 3dB on TX and RX Q-Lite: 2dBm $\pm$ 2dB on TX and RX Modem Agnostic: 0dBm nominal on TX and RX
L-Band Frequency Range	RX: 900-2150MHz TX: 950-2300MHz (varies with modem option)
Dimensions	950mp/1050TS/5650C/Q-Lite/Modem Agnostic: 17.25"L x 11.0"W x 5.0"H (w/bumpers) CBM400: 19.6"L x 11.00"W x 5.0"W (w/bumpers)

Environmental Specifications	
Humidity	0 to 100% (condensing) at 35°C
Rain	MIL-STD-810G
Salt Fog/Sand and Dust/Vibration	MIL-STD-810G
Altitude (Operational)	10,000 ft.
Altitude (Storage)	30,000 ft.
Temperature (Operational)	-40°C to +50°C (w/o fan); -40°C to +55°C (w/ fan)
Temperature (Storage)	-40°C to +71°C

Pointing Assistant	
User Interface	Web Browser via Ethernet (Tablet or PC)
GPS Receiver	Yes, antenna included
DVB-S2 Receiver	Yes
Elevation Accuracy	$\pm$ 0.2°
Heading Accuracy	$\pm$ 1.5°, undisturbed field
iDirect Modem Integration	Yes
DVB Lock Indicator	Yes
iDirect Modem RX Lock Indicator	Yes (950mp modem board required)
Beacon Lock	Yes (embedded spectrum analyzer required)

Connector Interfaces		
Interface	Connector	Mating Connector
Power Input	PT02E12-4P	PT06E12-4S-SR
Receive/Monitor	N-Type (F)	N-Type (M)
Transmit	N-Type (F)	N-Type (M)
Ethernet	RJF2SA1B	RJF6B
Console	RJF2SA1B	RJF6B
GPS	TNC (F)	TNC (M)
AUX Power Output	M53112E12-10S	M53116F12-10P

REV080525



Airbus DS Government Solutions, Inc.
 2920 E. Plano Parkway, Suite 200
 Plano, TX 75074 USA
 +1 (214) 231-3400
info@airbus-ds-gs.com | Airbus-DS-GS.com

AIRBUS