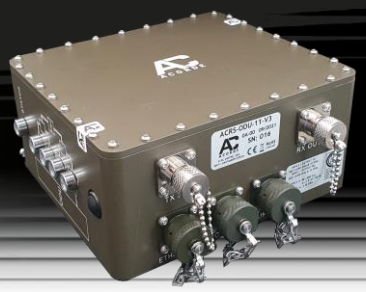
REDUNDANCY CONTROLLER

ACRS-ODU-11-V3

1:1 Tx and Rx redundancy system

Outdoor applications



Rev.01
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13/03/24

The **ACRS-ODU-11-V3** controller is designed for the most challenging **professional & military** satellite communication systems. It provides continuous operation without disruption of transmission and reception path with 1:1 configuration. Latest technology is applied to obtain the best noise figure, gain stability and return losses according to **MIL-STD-188-164C**. The ACRS-ODU-11-V3 is a **high reliability** solution designed for **harsh environmental conditions**, with every single production unit **fully tested** in an environmental chamber and delivered with a complete factory acceptance test report.

TRANSMITTER SPECIFICATIONS

Input/Output frequency	950 to 2150 MHz & 10 MHz
Input L-Band VSWR (50 Ω)	< 2.0:1
Max. input level without damage	+10 dBm
Insertion losses	< 4.5 dB
Gain flatness	±0.5 dB over whole BW
Switching time	850 ms typ

RECEIVER SPECIFICATIONS

Input/Output frequency	950 to 2150 MHz & 10 MHz
Input L-Band VSWR (50 Ω)	< 1.5:1
Insertion losses	< 4.5 dB
Gain flatness	±0.5 dB over whole BW
Switching time	850 ms typ

POWER SUPPLY

AC input voltage	85-265 V_{AC} (47-63 Hz)
Consumption	30W typ
Peak current	4 A (switch commutation)

MECHANICAL SPECIFICATIONS

Size (LxWxH)	184 x 162 x 87 mm	7.3 x 6.4 x 3.4 in
Weight	3.5 kg	7.7 lbs
Finish	NATO green	

ENVIRONMENTAL SPECIFICATIONS

Storage temperature	-40 °C to +85 °C
Operating temperature	-20 °C to +60 °C
Relative humidity	up to 100%
Operating altitude	up to 3000 m

INTERFACES

All mating connectors provided

TX input (L-Band + Ext. Ref.)	Type N(F) 50 Ω
TX outputs (L-Band + Ext. Ref.)	Type N(F) 50 Ω
RX inputs (L-Band + Ext. Ref.+ DC)	Type N(F) 50 Ω
RX output (L-Band + Ext. Ref. + DC)	Type N(F) 50 Ω
BUCs M&C	62IN12E12-14S-4-622
Switch M&C	62IN12E14-19P-4-622
LNB M&C	62IN12E8-4S-4-622
M&C (RS232/485)	62IN12E12-14S-4-622
M&C (Ethernet/SNMP)	62IN12E12-8S-4-622 (as option)
Power supply	62IN12E12-3P-4-622
Auto/Manual operation	Push button

OPTIONS

RS1	48 V_{DC}
RS2	Internal reference (Auto external on presence)
RS3	Operating temperature -40 °C to +60 °C
RS4	Ethernet interface (TCP/IP)
RS5	SNMP Agent