



Universal LNB / LNA Redundancy Controller

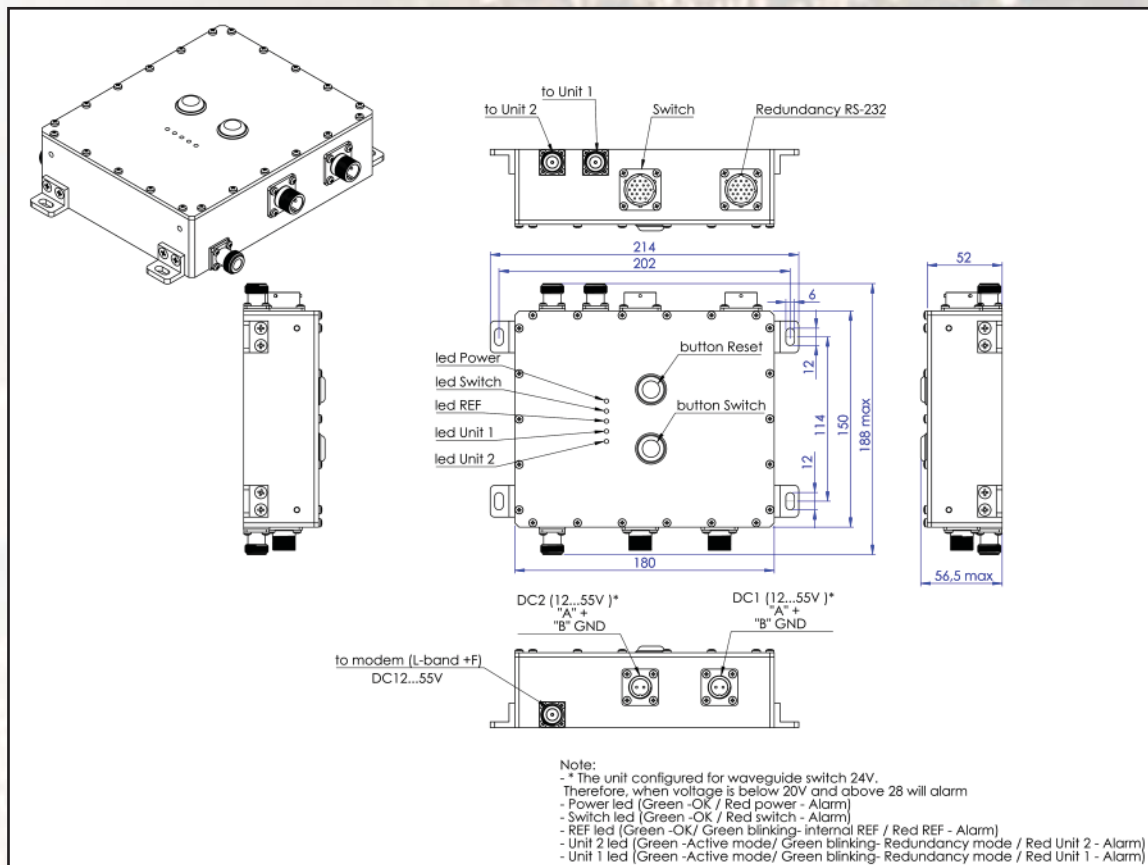
KEY FEATURES

- ◆ Ku, C, Ka or X-Band source 1:1 redundant system
- ◆ WR-137/WR-229, WR-75, WR-28 or WR-112 19pin connector
- ◆ Monitor and control the status of LNBs / LNAs via built-in RS-232/485/422
- ◆ Internal switchable high stability (10^{-8}) 10MHz reference (optional)
- ◆ Visual indication of the LNB/LNA status and alarms
- ◆ Manual and automatic operation
- ◆ IP67 standard rating
- ◆ Redundant external power
- ◆ Insertion loss less than 4dB
- ◆ L-Band frequency range 950-2150 MHz
- ◆ "Hidden" protective control buttons (optional)

ACLU011 / ACLU011R



Mechanical Drawing





Universal LNB / LNA Redundancy Controller

TECHNICAL SPECIFICATIONS

Monitoring & controlling	Local / Remote								
Methods of switching	Auto/Manual/physically Rotating SW								
LNB/A power supply voltage	Adjustable, 12V-24V (over remote protocol)								
LNB/A power supply current	0.6 amps max.								
LNB's nominal supply current adjust	100 mA to 600 mA								
LNB's current alarm window width	±5% to ±25% of nominal; software selectable in 5% steps								
Switchover time	100 msec								
IF input / output impedance / connector	50ohms – N-type Female or F-type Female								
IF bandwidth	950 MHz – 2150 MHz								
IF insertion loss	3 dB typ								
Serial I/O: interface	RS-232: RS-422: RS-485 – Ethernet optional								
RF WG switch actuating voltage	12-24 VDC (Depends on waveguide switch)								
DC input	12 - 55 V								
LNB status alarms	Front panel LED indicators glow green when all OK, red when an LNB fault is detected								
Unit buttons and indicators	Buttons are used to manually switch the LNBs. LED indicators show which LNBs are switched on-line. Red LEDs indicate faulted LNB.								
Auto/Manual switch and indicators	In auto mode, an LNB failure initiates the automatic switchover to the standby LNB. In manual mode, the online LNB can be selected from the front panel.								
Remote/Local switch and indicators	Selects either local or remote control from manual switch on front of serial interface.								
Embedded reference frequency oscillator	Ocxo								
Frequency	10MHz								
Stability	+/- 1x10 ⁻⁷								
10MHz reference level	0 dBm								
Phase Noise	<table border="0"> <tr> <td>10Hz</td> <td>-115 dBc/Hz</td> </tr> <tr> <td>100Hz</td> <td>-140 dBc/Hz</td> </tr> <tr> <td>1kHz</td> <td>-150 dBc/Hz</td> </tr> <tr> <td>10kHz</td> <td>-150 dBc/Hz</td> </tr> </table>	10Hz	-115 dBc/Hz	100Hz	-140 dBc/Hz	1kHz	-150 dBc/Hz	10kHz	-150 dBc/Hz
10Hz	-115 dBc/Hz								
100Hz	-140 dBc/Hz								
1kHz	-150 dBc/Hz								
10kHz	-150 dBc/Hz								
Temperature range									
operating	-40 deg C to +55 deg C								
storage	-55 deg C to +85 deg C								
Controller Dimensions & housing	214 (L) x 188 (W) x 56.5 (H) mm 8.4" (L) x 7.4" (W) x 2.2" (H)								
Weight	2.6 kg (5.7lbs) max								

