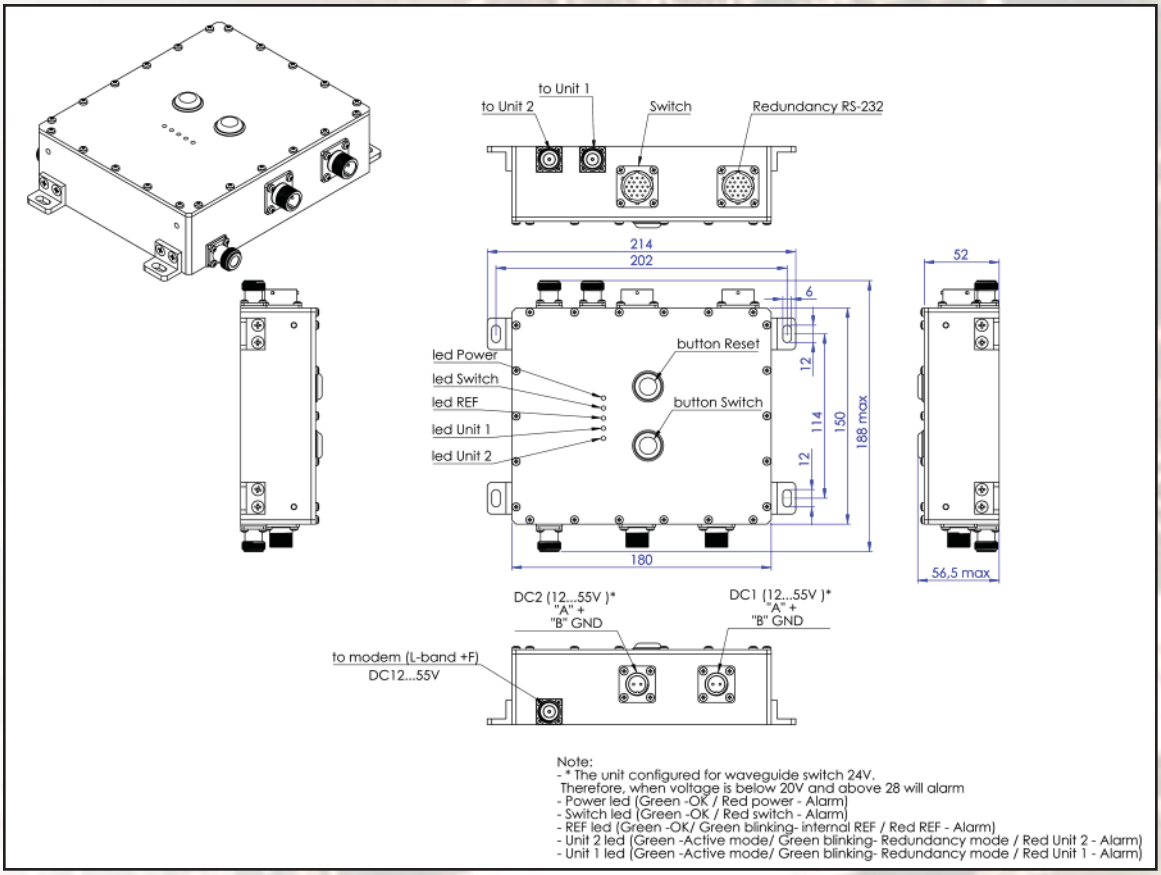
Universal LNB / LNA Redundancy Controller

KEY FEATURES

ACLU011 / ACLU011R

- 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)
- Suitable for multi L.O. LNBs, passes 22KHz tone
- 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 frequesncy range 950-2150 MHz
- "Hidden" protective control buttons

Mechanical Drawing



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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*E-7
10MHz reference level		0 dBm
Phase Noise	**10Hz** **100Hz** **1kHz** **10kHz**	-115 dBc/Hz -140 dBc/Hz -150 dBc/Hz -150 dBc/Hz
Temperature range operating storage		 -40 deg C to +55 deg C -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