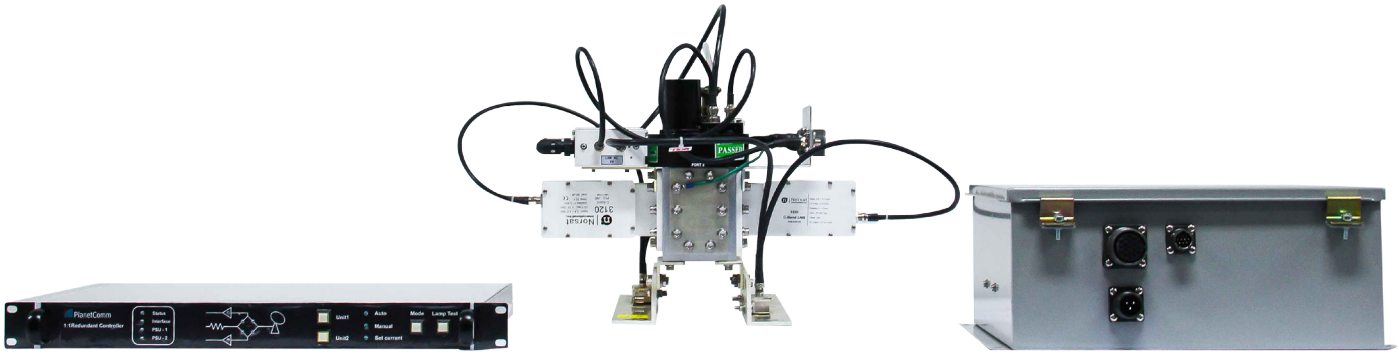
1:1 LNA/LNB Redundant Controller

Model: PCA1-11-RDNT-LNX



IDU | ODU Plate Assembly | ODU Control Box (IP65)

Figure 1 System Block Diagram

HIGHLIGHT FEATURES

- Front panel keypad and discrete LED's for configuration purposes and real time status.
- Automatic/Manual mode, Set LNB current, Lamp test.
- LED status for LNx pole.
- Audible alarm while FAULT status.
- Dual power supplies with universal input voltages.
- Support TCP/IP and TELNET configurations (optional).
- Still support RS-232 serial interface configuration through USB cable.
- Indoor unit is compact standard 19" rack 1RU size.
- Dip SW current ranges selector.

PRODUCT OVERVIEW

The 1:1 LNA/LNB Redundant Controller (LNx New) is a fault tolerant subsystem which support both C-Band and Ku-Band LNA and LNB Configurations. It is designed for 24x7 hours continuous operations. The LNx New is equipped with dual universal input voltage power supplies which are engineered to work even if one power supply is not functional. The controller can be operated by IDU Front Panel and the remote interfaces configuration, Waveguide Switch status and alarms acknowledgement.

FRONT PANEL MONITORING

The 1:1 LNx-RC front panel consists of discrete LEDs, keypad and a LED status. On the left-hand side of the 1:1 LNx-RC are 4 LED (2 Color Green-Red) indicators providing fault status. In the middle section, there is a large LED providing waveguide switch and LNA/LNB status. On the right-hand side of the 1:1 LNx-RC are 4 buttons providing the user interface for Auto/Manual, Set current, Lamp test and Acknowledge.

REAR PANEL INTERFACE

The 1:1 LNx New rear pand consists of (1) RJ-45 Connector For the Interface and Controling between IDU and ODU Control Box. (1) USB type B Connector for serial data port M&C. (1) Ethenet connector (option). Including LNB ranges selector DIP SW.

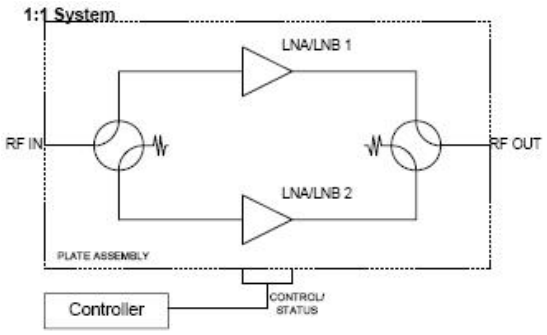


Figure 2 LNx RC System Block Diagram

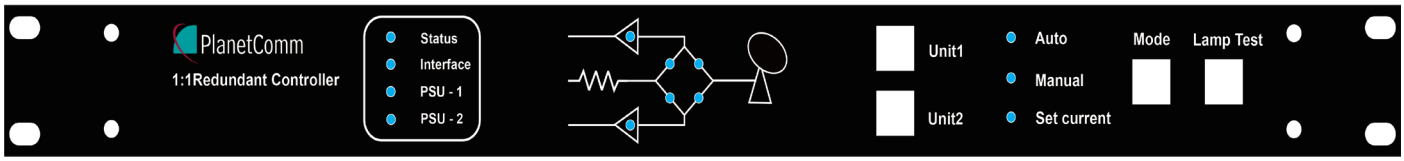


Figure 3A Front Panel

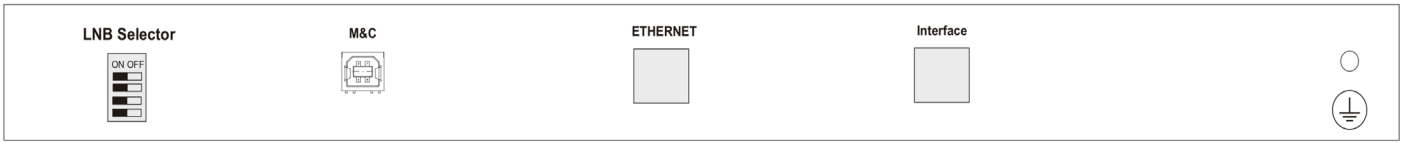


Figure 3B Rear Panel

SPECIFICATIONS

LED SYSTEM STATUS	(1) INTERFACE (1) UNIT1 STANDBY/ONLINE (1) UNIT2 STANDBY/ONLINE (1) AUTO (1) MANUAL (1) SET CURRENT
LED FAULT STATUS	(1) W/G SWITCH STATUS (1) POWER SUPPLY 1 STATUS (1) POWER SUPPLY 2 STATUS (1) UNIT 1 FAULT STATUS (1) UNIT 2 FAULT STATUS (1) INTERFACE
KEYPAD	(1) UNIT 1 SELECT (1) UNIT 2 SELECT (1) AUTO/MANUAL / SET CURRENT (1) LAMP TEST
CONNECTORS (IDU)	SERIAL (USB-B) INTERFACE (RJ-45) ETHERNET (RJ-45) optional
CONNECTORS (ODU)	AC INPUT (MS-3) INTERFACE (MS-10) W/G SWITCH PLATE (MS-19)
INTERFACES	HTTP PROTOCAL (WEBSITE) (Optional) TELNET – COMMAND LINE (Optional) RS232 – COMMAND LINE (USB-B)
CABLE	30 M (Typical) 60 M (Optional)
POWER	100-240VAC 50-60Hz
POWER CONSUMPTION	
• **NORMAL IDLE / STANDBY OPERATION**	7.5 VA (27VDC x 0.28A MAX)
• **SWITCH OPERATION-MOMENTARY**	121.5 VA (27VDC x 4.5A MAX)
GENERAL CHARACTERISTICS	0 C TO +50 C 0 – 95% HUMIDITY MOUNTING 1RU 19”
DIMENSION (IDU)	19” WIDTH 1.74” HEIGHT 15.5” DEPTH
DIMENSION (ODU)	15” WIDTH 6.5” HEIGHT 13” DEPTH
OUTDOOR SWITCHING TIME	100 ms (TYPICAL)

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