



# Piranha LNB DC Power Inserter Module

## Selectable 13/18/24VDC

### Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

LNB DC power inserter module (Bias-T) to fit Genus 1U chassis series. Provides selectable 13/18/24VDC and custom selectable voltage to LNB or similar and RF power in monitoring. Operating frequency 3-30MHz. The chassis has the capacity for up to 16 hot-swap modules, (dependant upon configuration).

### DC Inserter Module



#### DC Inserter Module

Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.



#### Variable voltage

selectable 13/18/24VDC to LNBS



#### Hot Swap & replaceable

RF DC Inserter module to LNBS

### Chassis Options



**Local control & monitoring** via HMI high resolution touchscreen



**Flexible Module Configurations** choose from a mixture of DC inserter modules..



**Resilience** from dual redundant hot-swap power supplies & field replaceable CPU & HMI



**Remote control & monitoring** via RJ45 Ethernet port with SNMP & web browser interface



**Compact indoor & outdoor** chassis options, which can be part populated



**Field replaceable Internal 10MHz reference source** and external reference inject port with auto detection (optional)



**Secure protocols** with SNMPv3 and HTTPS



Indoor Chassis



Outdoor Unit





**ETL Systems**

New technologies  
in RF distribution

Model Number:  
PRN-G1S-LY2-010

PRN LNB DC Power Inserter Module - RF Parameters				
Model Numbers		PRN-G1S-LY2-010		
Size		1 slot wide		
Capacity		Single path		
Frequency Range		3-30 MHz		
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC 75Ω F-type
Insertion Loss (dB)		<1.5dB across full band		
Flatness (dB)	Full band	±0.40 dB		
Return Loss (dB)	Typ.	17 dB		
	Min.	14 dB		
Isolation		80 dB min between any two modules		
LNB Voltage		Off. 13V. 18V. 24V. @ port 1. ± 5% typ. Custom 13V to 24V in 1V steps.		
LNB Load		Up to 500mA Maximum. Overcurrent protection: Current limited to 1A nominal. Trip and restart. . Trip and restart.		
Input RF Power		+20dBm. Absolute total maximum		
Module DC Power		12 VDC. Module hot swappable		
DC Consumption		15W Full Load.(24V @ 0.5A) 3W No Load. Max consumption at a steady state.		
RF Power Detect		Range -40dBm to -10dBm total power across band. For indication only		
User Alarms		Via Chassis Ethernet/HMI/Web Interface (upper and lower limits user settable) LNB Current RF Power In		
Module Weight		0.18kg		
Module Dimensions		175mm x 45mm x 20mm maximum. PRN-G1x chassis or Genus 1U series mountable.		
Module Finish		Machined Aluminium		
MTBF		TBC		
Spec Version		1.0		

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

Note 3: All specs are for 50 Ohm connectors unless detailed otherwise.

ETL SYSTEMS LIMITED  
Coldwell Radio Station  
Madley  
Hereford  
England HR2 9NE

TELEPHONE  
+44 (0)1981 259020

WEB  
[www.etsystems.com](http://www.etsystems.com)

EMAIL  
[info@etsystems.com](mailto:info@etsystems.com)

