

# Piranha LNB DC Power Inserter Module

with 10MHz injection, Custom VDC & 22kHz tone

LNB DC power inserter module (Bias-T) to fit Genus 1U chassis series. Provides selectable 13VDC/18VDC/24VDC, custom voltage & 22kHz tone to LNBs or similar and RF power in monitoring. 10MHz injection onto port 1 is switchable on/off when fitted to Genus chassis with 10MHz card fitted. Full control and monitoring of the module is possible locally through the parent chassis HMI (if fitted), or remotely via Ethernet.

## 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.

### 10MHz injection

onto port 1 is switchable on/off (when fitted with 10MHz option).

### Variable voltage

selectable 13/18/24VDC, custom VDC and 22 kHz tone to LNBs

### Hot Swap & replaceable

DC Inserter module

## Chassis Options

### Local control & monitoring

via HMI high resolution touchscreen

### Resilience

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

### Compact indoor & outdoor

chassis options, which can be part populated

### Secure protocols

with SNMPv3 and HTTPS

### Flexible Module Configurations

choose from a mixture of DC inserter modules.

### Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface

### Field replaceable Internal 10MHz reference source

and external reference inject port with auto detection (optional)



Indoor Chassis



Outdoor Unit

PRN BUC DC Power Inserter Module - RF Parameters					
Model Numbers		PRN-G1S-LS2-106			
Size		1 slot wide			
Capacity		Single path			
Frequency Range		850-2450 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			
	Any 36MHz	±0.15 dB			
Return Loss (dB)	Typ.	17 dB			
	Min.	14 dB			
Isolation		80 dB min between any two modules			
LNB Voltage		Off, 13V, 18V, 24V Custom—13V to 24V in 1V steps. For 22kHz, contact ETL (22kHz not available for all configurations) Via port 1. Tolerance ±5% typ.			
LNB Load		Up to 1A Maximum. Overcurrent protection: Current limited to ~1.5A			
10MHz		Switchable on/off to port 1			
Input RF Power		+10dBm. Absolute total maximum			
Module DC Power		12 VDC. Dual redundant 12V bus, module hot swappable			
DC Consumption		34W Full Load. 3W No Load. Max consumption at a steady state.			
RF Power Detect		Range -50dBm 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			
Remote Control & Monitoring		This module provides monitoring and control via connection with parent chassis. See parent chassis spec for specific details. Voltage/tone/10MHz selection and current monitoring of LNB, and Alarms status monitoring.			
Module Weight		0.18kg			
Module Dimensions		256mm x 42mm x 22mm maximum. PRN-G1x chassis or Genus 1U series mountable.			
Module Finish		Machined Aluminium			
MTBF		>250,000 hrs			
Spec Version		1.2			
Connector Options					
Connector Type		PRN-G1S-LS2-106-xxxx			
SMA 50 Ohm		PRN-G1S-LS2-106-S5S5			
BNC 50 Ohm		PRN-G1S-LS2-106-B5B5			
BNC 75 Ohm		PRN-G1S-LS2-106-B7B7			
F-Type 75 Ohm		PRN-G1S-LS2-106-F7F7			

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.