

Piranha LNB DC Power Inserter Module

Selectable 13/18/24VDC, 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. 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.

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 DC Power Inserter Module - RF Parameters				
Model Numbers		PRN-G1S-LS2-107		
Size		1 slot wide		
Capacity		Single path		
Frequency Range		850-2500 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. Trip and restart.		
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		
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		

Part number configurator: PRN-G1S-LS2-107-XXXX →

S5S5 - SMA 50 ohm
B5B5 - BNC 50 ohm
B7B7 - BNC 75 Ohm
F7F7 - F-Type 75 Ohm

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.