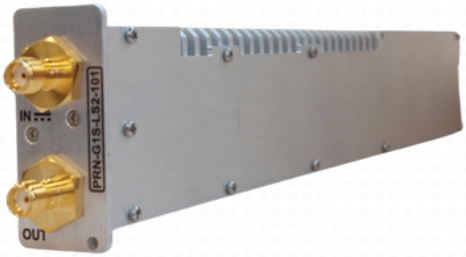
Piranha Genus Standard LNB DC/10MHz injector

selectable 13/18V 22kHz, up to 500mA.

LNB DC power inserter module (Bias-T) to fit Genus 1U chassis series. Provides selectable 13VDC/18VDC/22kHz tone to LNBs or similar and RF power in monitoring. 10MHz injection onto port1 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 13/18VDC, and 22 kHz tone to LNBs.

Hot Swap & replaceable
RF 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-LS2-101			
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. 22kHz Tone on/off At port 1. Tolerance ±5% typ.			
LNB Load		Up to 500mA Maximum. Overcurrent protection: Current limited trip and restart.			
10MHz		Switchable on/off to port 1 (see parent chassis for detailed specification)			
Input RF Power		+20dBm. Absolute total maximum			
Module DC Power		12 VDC. Dual redundant 12V bus, module hot swappable			
DC Consumption		12W Full Load. 2W No Load. Max consumption at a steady state.			
RF Power Detect		Range –45dBm to 0dBm 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.			
Local Control & Monitoring		Chassis LCD HMI front panel and LNB DC active LED on module face at rear.			
Module Weight		0.2kg			
Module Dimensions		255mm x 45mm x 20mm maximum. PRN-G1x chassis or Genus 1U series mountable.			
Module Finish		Machined Aluminium			
MTBF		>250,000 hrs			
Spec Version		1.0			

Part number configurator: PRN-G1S-LS2-101-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.