

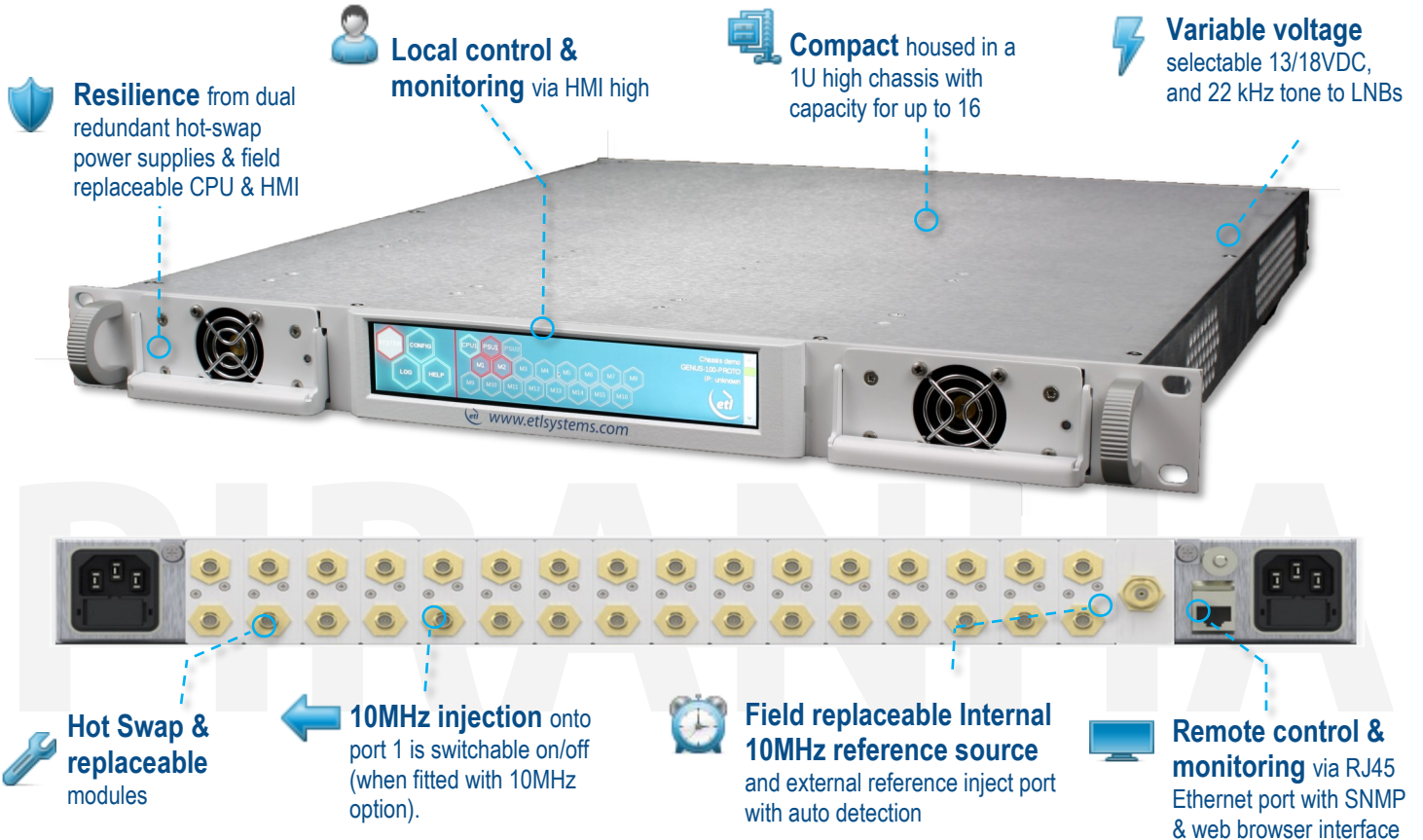


Piranha Genus Standard LNB DC/10MHz injector, selectable 13/18V 22kHz, up to 500mA.

Typical applications:

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

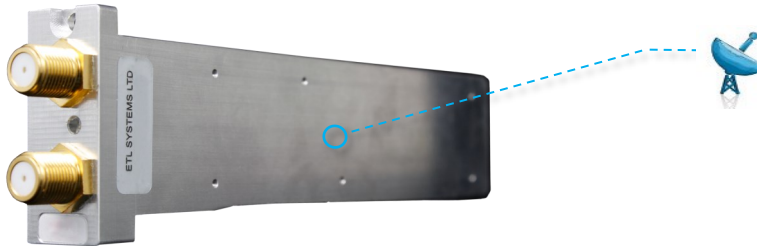
LNB DC power inserter module (Bias-T) to fit Genus 1U chassis series. Provides selectable 13VDC/18VDC/22kHz tone to LNBs or similar and RF power in monitoring. 10MHz injection onto port1 is switchable on/off when fitted to Genus chassis with 10MHz card fitted. Full control and monitoring of the module is possible locally through the parent chassis HMI (if fitted), or remotely via Ethernet.



Chassis - Specification

Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)
Capacity	Total of 17 module slots. Note that 1 slot may be used for fan (if required) and 1 slot may be used for 10 MHz EXT inject module (if required). Note actual modules may require >1 slot. Refer to required module spec table.
Temperature	Operating: 0°C to +45°C / Storage: -20°C to +75°C
Location / Humidity / Altitude	Indoor use only / 20 to 90% non-condensing / 10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage) Above Mean Sea Level
Control & Monitoring	Local: HMI touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface HMI and CPU field replaceable. Each module independently monitored and reported.
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock
AC Input / Consumption	85-264Vac 50/60Hz / 150W
PSU Redundancy	Dual redundant and alarmed Diode OR. Hot swappable
Input & Output ports	Dependant upon module fitted





Power Inserter Module

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

PRN LNB 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. 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	+15dBm. 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/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			

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.

