



Piranha Genus Standard BUC DC/10MHz injector, selectable 24V.

Typical applications:

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

BUC DC power inserter module (Bias-T) to fit Genus 1U chassis series. Provides selectable 24VDC to BUCs 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 24V to BUCs



Hot Swap & replaceable
RF DC Inserter module

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)



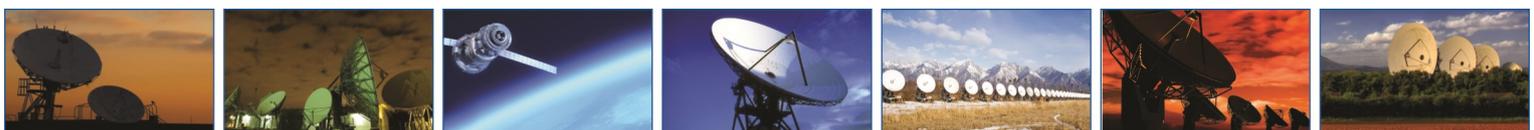
Secure protocols with SNMPv3 and HTTPS



Indoor Chassis



Outdoor Unit





PRN BUC DC Power Inserter Module - RF Parameters				
Model Numbers		PRN-G1S-BS2-003		
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		
BUC Voltage		Off. 24V. At port 1. Tolerance ±5% typ. Ripple: 0.75% Max		
BUC Load		2.8A 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		95W Full Load. 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) BUC 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.		
Local Control & Monitoring		Chassis LCD HMI front panel.		
Module Weight		0.18kg		
Module Dimensions		256mm x 45mm x 22mm maximum. PRN-G1x chassis or Genus 1U series mountable.		
Module Finish		Machined Aluminium		
MTBF		>250,000 hrs		
Spec Version		1.2		

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.

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