

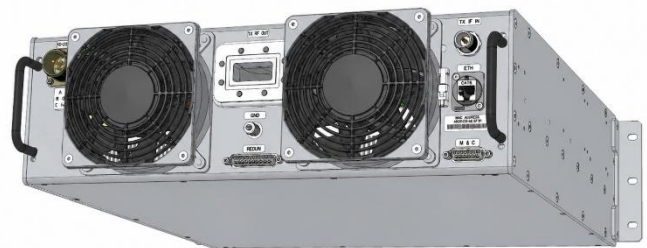
This compact yet powerful 200W indoor SSPA/BUC harnesses advanced Gen III GaN technology, delivering industry-leading broadband RF performance, exceptional efficiency, outstanding linearity, and long-term reliability for applications such as multicarrier, multi-transponder DTH contribution or distribution, CBH, HTS VSAT Hub

Key Features

- Built-in 2:1 and 1:1 Redundancy, no External Redundancy Controller required
- High Linearity, efficiency and MTBF
- Built-in High Precision true RMS Output Power Meter
- Web Interface, SNMP support
- Output Overdrive Protection
- Output VSWR Protection
- Thermal shutdown

Options

- HPA or BUC
- Standard (CS, 5.850-6.425 GHz), Extended (CX, 5.850-6.725 GHz) and Insat (CI, 6.725-7.025 GHz) bands
- Internal High-stability 10 MHz Reference
- 1U Rack mountable RCP (Remote Control Panel) for 1:1 redundancy
- 2U Rack mountable RCP 2:1 redundancy



In addition to its industry-leading performance and reliability, this device boasts a comprehensive suite of monitoring and control capabilities, easily accessible via Ethernet, serial RS232, RS485 interfaces, or dry contacts. It is the premier choice for demanding applications, specifically designed for outdoor installations, and because its ultra-linear performance offers the capability to utilize 256 APSK modulation on small (1.8m) antennas for contribution, as well as multicarrier, multi-transponder use for DTH distribution and data transmission, such as HTS/UHTS VSAT Hubs/UT

Designed for indoor teleport and gateway environments, this amplifier combines exceptional power density, efficiency, and reliability in a compact rackmount platform. Its optimized thermal architecture and integrated forced-air cooling simplify installation in standard equipment racks while reducing facility operating costs. The unit delivers maximum performance in teleports, broadcast facilities, network operations centers, and other mission-critical satellite communication infrastructures.

* SSPA: SBIS0200C; SSPB (BUC): SBIB0200C

MODELS			
	SBIS0200CS & SBIB0200CS	SBIS0200CX & SBIB0200CX	SBIS0200CI & SBIB0200CI
RF Frequency range	5.850-6.425 GHz	5.850-6.725 GHz	6.725-7.025 GHz
IF Frequency range*	950-1525 MHz	950-1825 MHz	1150-1450 MHz
LO Frequency*	4.9 GHz	4.9 GHz	5.575 GHz

RF CHARACTERISTICS	
P _{Sat} , Rated Output Power	53 dBm / 200 W min
P _{Lin1C} , Linear Power as defined by MIL-STD-188-164C, 1 carrier	51 dBm / 126 W min
P _{Lin2C} , Linear Power as defined by MIL-STD-188-164C, 2 carriers	50 dBm / 100 W min
Small Signal Gain	70 dB typ
Gain Flatness over full frequency range	± 2.0 dB max
Gain Flatness over any 40 MHz	± 0.5 dB max
Gain Control	20 dB min dynamic range, 0.1 dB steps
Gain Stability over full Temperature and Frequency ranges	± 2.5 dB max between -0°C and 50°C
Gain stability over 24h at constant drive and temperature	0.5 dB peak-to-peak
Linearity: IMD3 measured with 2 equal tones 5 MHz apart	-26 dBc at total power = P _{Lin2C}
External Reference Frequency*	10 MHz, sinusoidal, multiplexed with L-band (IF In)
External Reference Level*	0 dBm, ±5 dB
External Reference SSB Phase Noise, max*	-110 dBc/Hz @ 10 Hz; -125 dBc/Hz @ 100 Hz; -140 dBc/Hz @ 1 kHz; -155 dBc/Hz @ 10 kHz; -165 dBc/Hz @ 100 kHz; -165 dBc/Hz @ 1 MHz;
Up-Converter SSB Phase Noise, max* (not present if SSPA)	-54 dBc/Hz @ 10 Hz; -72 dBc/Hz @ 100 Hz; -80 dBc/Hz @ 1 kHz; -90 dBc/Hz @ 10 kHz; -100 dBc/Hz @ 100 kHz; -115 dBc/Hz @ 1 MHz
Integrated Phase Noise	1° RMS max
Output Spurious: In-band	< -60 dBc
Output Spurious: Out-of-band	Complies with ETSI EN 301 428/430 and MIL-STD188-164C
Harmonics at P _{Lin2C}	< -60 dBc
AM/PM Conversion	2.0°/dB max at P _{Lin1C}
Noise Power Density	Tx < - 80 dBm/Hz Rx < - 155 dBm/Hz
Output RF Power Monitor	52 dB, 1dBpp flatness over frequency range

INTERFACES	
IF Input connector	50 Ohms N-type (F)
Input VSWR	1.5:1 max
RF Output Connector	CPRI37 grooved, threaded 10-32 UNF
Output VSWR	1.3:1 max
RF Sample	50 Ohms N-type (F)
AC Power In	C13
M&C Interfaces: Ethernet, Serial RS-232 & RS-485, Form-C	DB-25 & RJ-45
Redundancy	DB-15

POWER	
AC Voltage Range	190-265 VAC
Frequency Range	47-63 Hz
Power Consumption at P _{Sat}	900 W
Power Consumption at P _{Lin2C}	780 W

ENVIRONMENTAL	
Cooling systems	Forced Air
Temperature	
Operating	-0°C to +55°C
Storage	-20°C to +60°C
Relative Humidity	95%
Altitude	10,000 ft (3,000 m) AMSL

MECHANICAL	
Dimensions (LxWxH)	5.25 x 19.00 x 17.00 in 133.35 x 482.6 x 431.8 mm
Weight	55 lb (25 kg)

*Parameters marked with asterisk related to the BUC option