

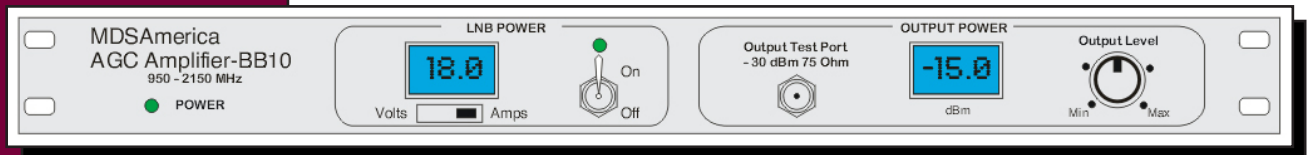


AGC Amplifier

AGC AMP-BB10

Digital Head End Series

The MDSA AGC Amplifier- AGC AMP-BB10 is designed based on the company's experience of deploying MVDDS systems. The amplifier operates in L-band and has Automatic Gain Control (AGC) to optimize the operation of the reception equipment. The MDSA AGC Amplifier is 19" rack mount unit with built-in auto sensing power supply which can operate within 100 to 260 VAC range.



Features

- Monitoring and control port (M&C port). This port sends the important information about input signal level, output signal level, power supply voltages to MDSA monitoring and control unit and then to a network operation center (NOC)
- Two slots to install MDSA 8-port splitter and one slot to install 2-way splitter to use the unit as a distribution AGC amplifier
- LNB power through with LCD
- LCD indicator of the total output power.

RF Specifications

- Frequency range: 950 to 2150 MHz
- Input/Output impedance: 75 Ohms
- Input signal dynamic range: -50 to -15 dBm
- Nominal output signal level: -10 dBm
- Adjustment of output signal level: 20 dB
- Input/Output Return losses: 15 dB min
- Noise figure, max: 10 dB
- Output power 1dB compression point: 10 dBm max
- Gain flatness for max gain: ± 1 dB max
- Output test port: -20 dB



Hardware Specs

- Power supply: 100 to 260 VAC, 50/60 Hz
- LNB power through input connector: 18 V
- LNB Current: 1 A max
- Switch "LNB Power" On/Off with "On" Status Indicator
- "Total Power" Indicator
- 19" rack mount, 16 inch depth
- Output test port with F-connector
- Expansion slot to install two 8 way and one 2 way splitters or combiners
- Optional internal bandpass filter
- Digital indicator for LNB voltage and current, and total RF power
- Adjustable output signal level
- DB-15 connector on rear panel for MDSA M&C

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Technical Specifications

POWER AMPLIFIER

RF Specification

- Input frequency range: 950 to 1,950 MHz
- Output frequency range:
 - 10,700 to 11,700 MHz
 - 11,700 to 12,700 MHz
- Input connector: N-type, 50 Ohms
- Output connector: WR75
- Input signal range: -40 to -20 dBm
- Output signal level: +30 to +49 dBm
- Gain flatness:
 - 3 dB p-p, max within 1,000 MHz
 - 2 dB p-p, max within 500 MHz
 - 0.5 dB p-p, max within 40 MHz
- Input return loss, min: 18 dB
- Output return loss, min: 20 dB
- Noise figure, max: 10 dB@max gain
- Third order intermodulation, max: 35 dBc
- In-band spurious level, max: - 50 dBc@max power
- Out-band spurious level: - 50 dBc@max power
- Phase noise @ offset:
 - 100 Hz: - 60 dBc
 - 1 kHz: - 65 dBc
 - 10 kHz: - 75 dBc
 - 100 kHz: - 85 dBc

Management

- 10/100Base-T (RJ-45) for management over IP/Ethernet
- SNMP v.2 agent for monitoring and configuration switching
- RS-232 and RS-422 serial

Indoor Specifications

- Power supply: 100 to 260 VAC, 50/60 Hz
- Power consumption: 300 Watts
- Operating temperature: 0 to +50 degrees Celsius

Outdoor Specifications



- Power supply: 40 to 60 VDC
- Power consumption: 370 Watts average
- Operating ambient temperature: -30 to +55 degrees Celsius

Models

- SSPB-107-40in

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