



RACK MOUNT LINE AMPLIFIERS WITH REMOTE CONTROL



The GeoSync Microwave rack mount amplifiers Series are designed to provide local and remote control and monitoring of up to four RF amplifiers. These amplifiers can be used in any application where additional gain is required.

Geosync also offers additional models in redundant configurations (GS24-SPC) and units without remote control (GS14-SPC).

STANDARD FEATURES

- Module current fault detection
- RS422, RS485 and 10/100Base-T Ethernet with embedded web server
- Software updates via Ethernet port
- Elapsed time and event log after power turn on

OPTIONS

- Variable input or output attenuator
- Input or output power detector
- Increased output power (compression)

MODELS

Frequency	Model Number	Gain (Center band) (dB)	Amplitude resp/Any 50 MHz (Maximum) (dB)	Amplitude response/ RF Band (Maximum) (dB)	Noise figure (Maximum) (dB)	Output 1 dB Comp. pt. (Minimum) (dBm)
50-200 MHz	RA-IF-X	20 \pm 2	\pm 0.25	\pm 0.25	7	13
950-2150 MHz	RA-L-X	20 \pm 2	\pm 0.25	\pm 1.0	8	13
950-2450 MHz	RA-L1-X	20 \pm 2	\pm 0.25	\pm 1.5	8	13
2.0-2.4 GHz	RS-S-X	20 \pm 2	\pm 0.25	\pm 1.0	7	13
3.4-4.8 GHz	RS-C-X	20 \pm 2	\pm 0.25	\pm 1.0	8	13
5.725-6.725 GHz	RS-C1-X	20 \pm 2	\pm 0.25	\pm 1.0	8	13
10.7-12.75 GHz	RS-Ku-X	20 \pm 2	\pm 0.25	\pm 2.0	7	13
13.75-14.8 GHz	RS-Ku1-X	20 \pm 2	\pm 0.25	\pm 2.0	9	13
17.3-18.4 GHz	RS-dBS-X	20 \pm 2	\pm 0.25	\pm 1.5	9	13
17.7-21.2 GHz	RS-Ka-X	20 \pm 2	\pm 0.25	\pm 2.0	9	10

Note: X is the number of channels. -1 for one channel, -2 for two channels, up to four channels.

OPTIONS

- 31-1a. N female, 50 ohm input connector
- 31-1b. N female, 50 ohm output connector
- 31-1c. BNC female, 50 ohm connector
- 31-1d. BNC female, 50 ohm connector
- 31-2a. -20 dBc input signal monitor, rear panel, SMA female
- 31-2b. -20 dBc output signal monitor, rear panel, SMA female
- 31-3. Variable attenuator, 30 dB in 0.2 dB steps
- 31-4. Output signal power detector with level alarm.
- 31-5. Increased output power. +27 dBm minimum P1dB compression point

REMOTE CONTROLS

Serial Interface	RS485/RS422
Ethernet Interface	10/100Base-T Ethernet interface providing:
	-HTTP-based web server
	-SNMP 1.0 configuration
	-Alarm reporting via SNMP Trap
	-Telnet Access
	-Password protection

INDICATOR and ALARMS

Remote Mode	Green LED (front panel)
Alarm	Red LED (front panel)
Summary Alarm	Contact closure/open for DC voltage and local oscillator

PRIMARY POWER REQUIREMENTS

Voltage..... 90-250 VAC
Frequency.....47-63 Hz
Power Consumption40W typical
FusesT1.5A

SUMMARY ALARM

Contact closure/open for DC voltage and/or amplifier alarm. Status alarm readout on remote control bus.

PHYSICAL

Weight10 pounds (4.5 kg), nominal
without rack slides
14 pounds (6.4 kg), nominal
with rack slides
Chassis Dimensions19" x 1.75" panel height
x 20" maximum
Connectors -
RFSMA female (see options)
Summary AlarmDE-9P
Remote InterfaceDE-9S for RS422, RS485
RJ-45 female for Ethernet
Primary PowerIEC-320

ENVIRONMENTAL

Operating -
Ambient Temperature 0 to 50°C
Relative Humidity Up to 95% at 30°C
Altitude Up to 10,000 feet
Non-operating –
Ambient Temperature -50 to +70°C
Relative Humidity Up to 95% at 40°C
Altitude Up to 40,000 feet
Shock and Vibration Normal handling by
commercial carriers

NOTE: FOR DESCRIPTION OF OPERATION REFER TO TECHNICAL NOTE GS31-TCN.