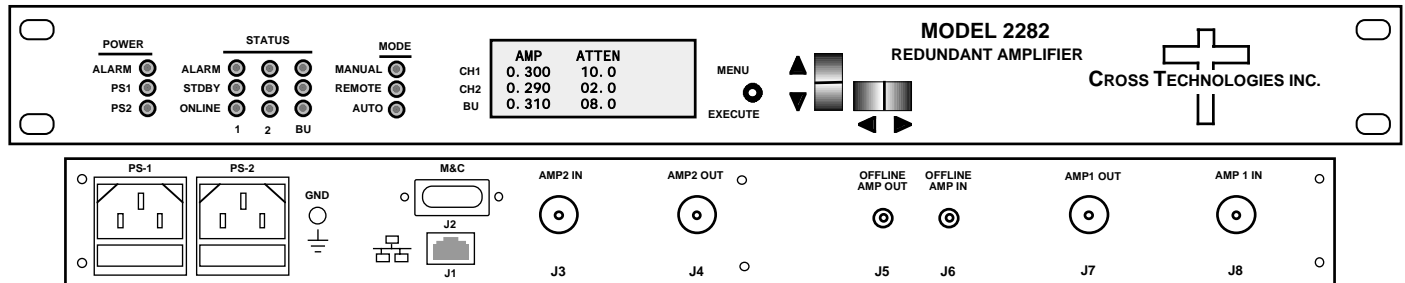


2282-122-21 Redundant Amplifier, 0.95-2.15 GHz, +33 OIP3

The Model 2282-122-21 Redundant Amplifier, 0.95-2.15 GHz, +33 OIP3, monitors and controls internal amplifiers configured in a 1:1 or 1:2 redundant configuration. Variable attenuators can adjust the gain of each amplifier by 30 dB in 0.5±0.5 dB steps by the front panel controls and the M&C. Front panel LEDs indicate power, status (online, standby, alarm), and mode (auto, manual, remote). The amplifiers' current is measured and a fault is signaled if the current deviates from user selected thresholds. Multi-function switches select Auto, Manual or Remote operation, priorities for 1:2, and the signal path in the Manual mode. Remote operation via the RS232/RS485 M&C interface allows selection of priorities (1:2) and the signal path. Ethernet is available as an option. An LCD display shows each amplifier's current, and Attenuation settings. Connectors are type N, female for the RF in and out signals, DB9 for monitor and control. The 2282-122-21 is housed in a 1RU chassis and is powered by redundant power supplies fed by separate, fused 100-240 ±10% VAC AC input connectors.



Front and Rear Panels (2282-122-21 shown with optional Ethernet)

EQUIPMENT SPECIFICATIONS*

Input Characteristics (RF)

Impedance/Return Loss 50Ω/12dB
 Frequency 0.95 to 2.15 GHz
 Noise Figure, Max. 10 dB at max gain

Output Characteristics (L-Band)

Impedance/Return Loss 50Ω /12 dB
 OIP3 **+33 min**
 Output 1 dB compr. **+18 dBm**

Channel Characteristics

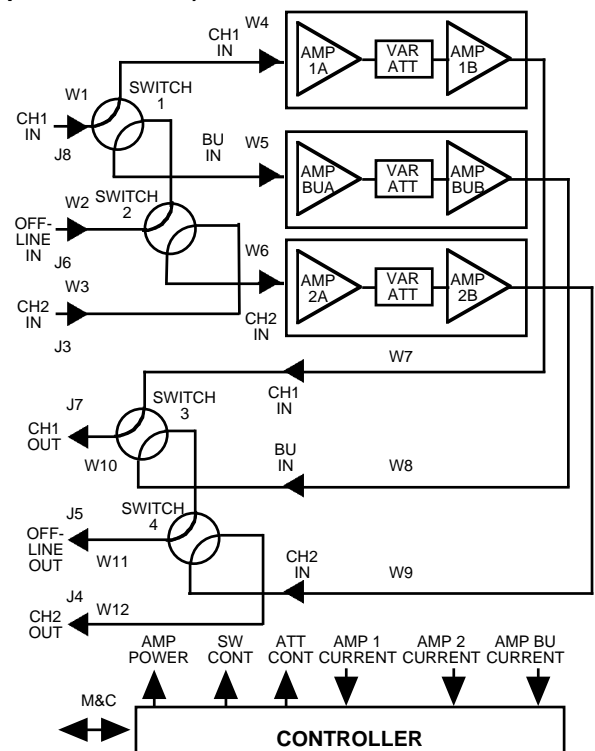
Gain, maximum **+25 dB ± 1 dB**, 0.95 to 2.15 GHz
 Gain, adjustment 30 dB adjustment in **0.5 ± 0.5 dB Steps**
Gain, match 1 dB max difference between primary and backup
 Spurious, 2nd harmonic **<-55 dBC in band, 0 dBm out, at 1 GHz**
 Frequency Response **± 1 dB across band, ± 0.25 dB, any 40 MHz BW**

Controls, Indicators

Gain, Amp Select direct readout LCD; pushbutton switches or remote
 Status and mode Green, Red, Yellow LEDs
 Remote RS232C/RS485/422, 9600 baud (Ethernet Optional)

Other

RF In/Out Type N (female), 50Ω
 RF Off line In/Out SMA (female), 50Ω
 Alarm/Remote Conn. DB9 - NO or NC contact closure on Alarm
 Size 19 inch standard chassis 1.75" high X 19.0" deep
 Power 100-240 ± 10% VAC, 47 - 63 Hz, 50 watts max.



2282-122-21 Redundant Amplifier Block Diagram

Remote M&C Ethernet Options

W8 - Ethernet w/web browser Interface
 W18 - Ethernet w/SNMP (and MIB) Interface
 W28 - Ethernet w/direct TCP/IP Interface

Other Options - Call Cross

*10°C to 40°C; Specifications subject to change without notice.