

Product Specification

RFMS8X8-1-18GNB

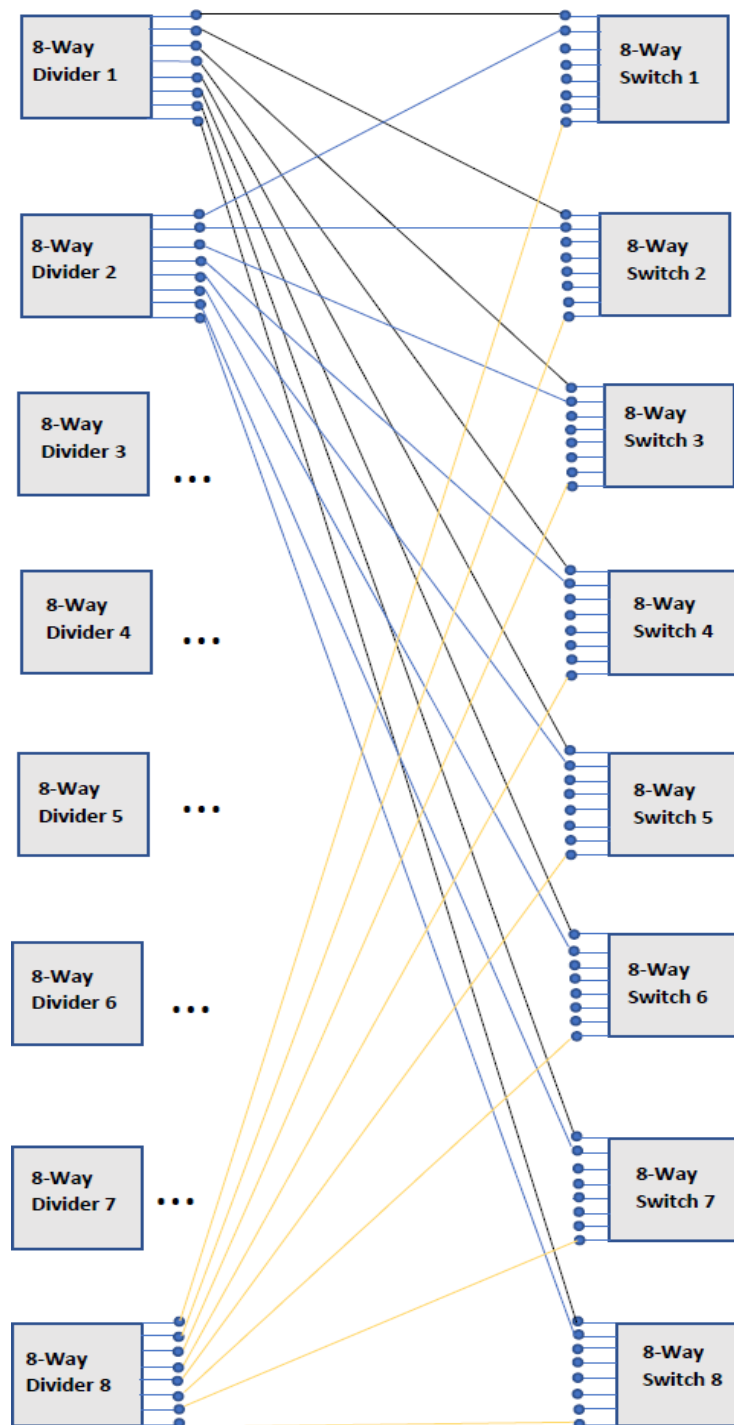
8x8 Switch Matrix

The Matrix consists of 8 through channels with the ability to switch any one input channel to any output channel. The Matrix features redundant power supplies, +18 dBm RF Power capability per port, active gain circuitry to compensate switching losses and operates from 1 GHz to 18 GHz.

Electrical Specifications

Parameter	Specification
Frequency	1 GHz – 18 GHz
RF Power In	+18 dBm Max
RF Gain	-3 dB to +3 dB
Output Power P1dB compression	+20 dBm Min.
NF	27 dB
Gain Slope	1 dB over any 40 MHz band Max
Isolation	60 dB
VSWR	2.0:1 Min
Inputs	8
Outputs	8
Delay Balance	10 nsec Max
Signal Flow	Uni-Directional
Matrix Type	Non-Blocking- Single Input to Multiple Outputs
Switching Time	20 ms, not including network delay or command processing
Switching Cycles	1000000
Switch Type	Normally Open
RF Connector	SMA Female
Power Supply	110/220 VAC
Control	Ethernet
Enclosure	19" Rack Mount 4U High 22" Depth
Weight	44 lbs [20 kg]
Operating Temperature	0 – 50°C
Redundancy	Internal redundant power supplies
Frequency	1 GHz – 18 GHz

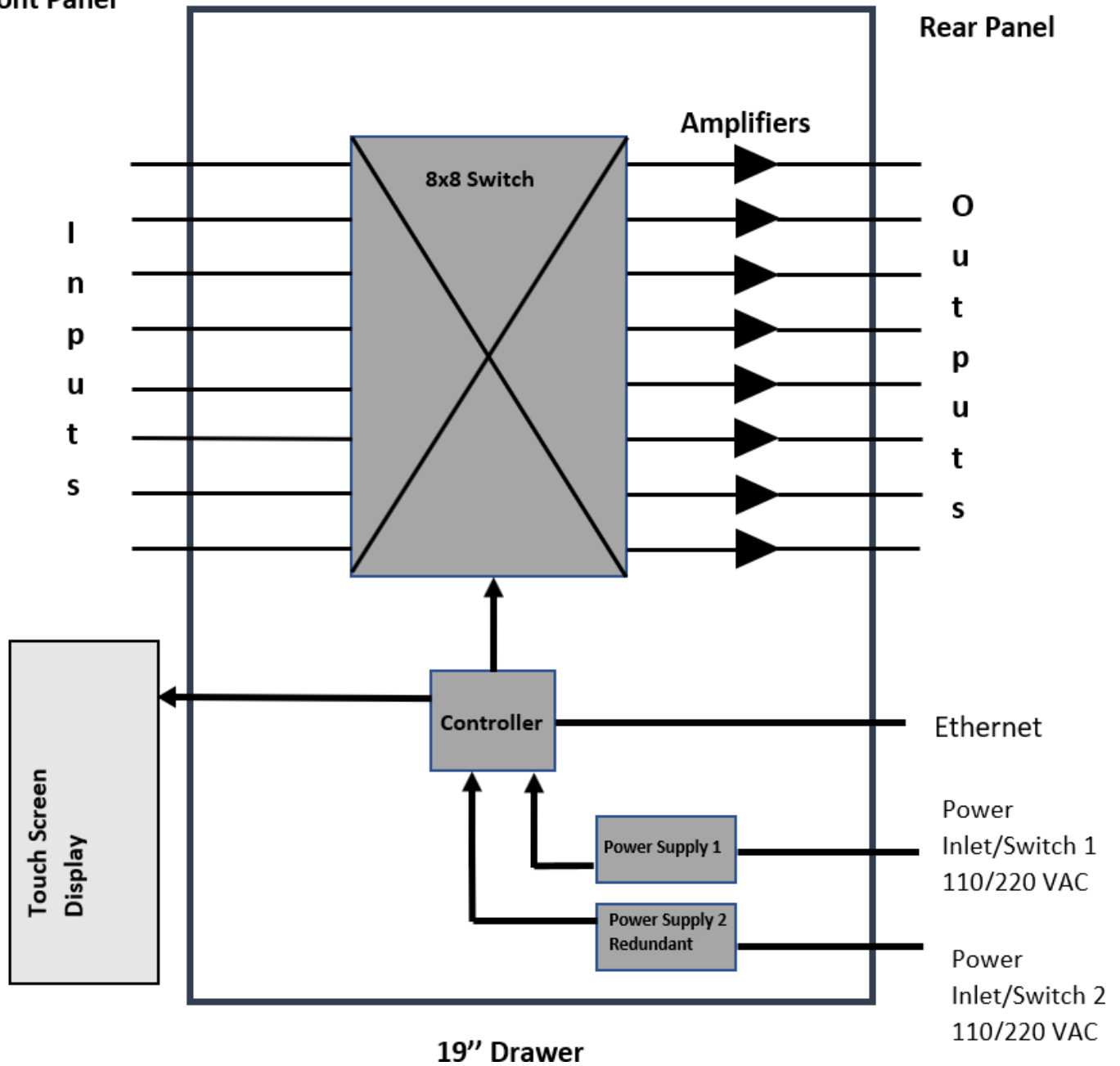
8X8 Switch Block Diagram



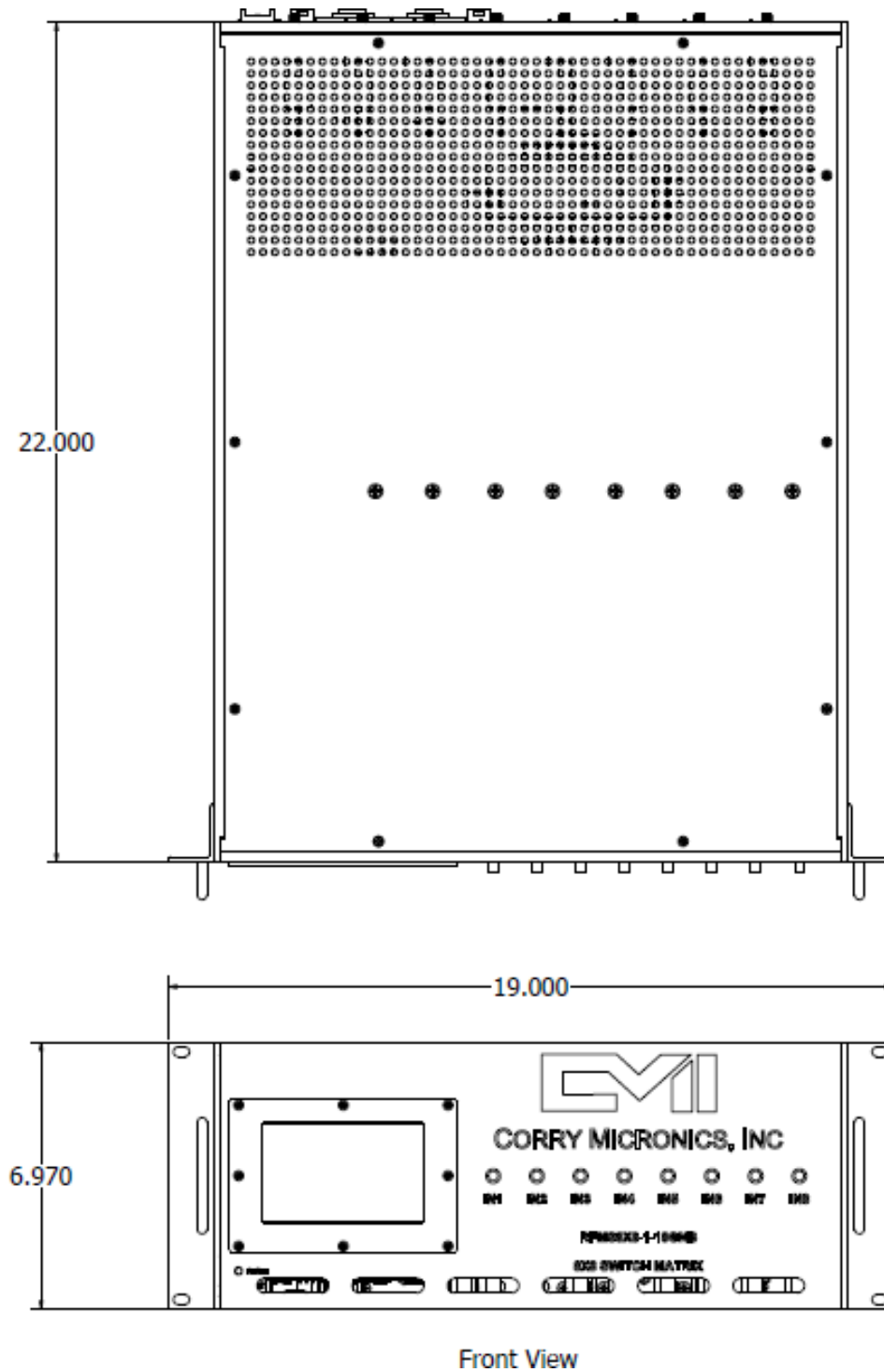
Mechanical Specifications

Front Panel

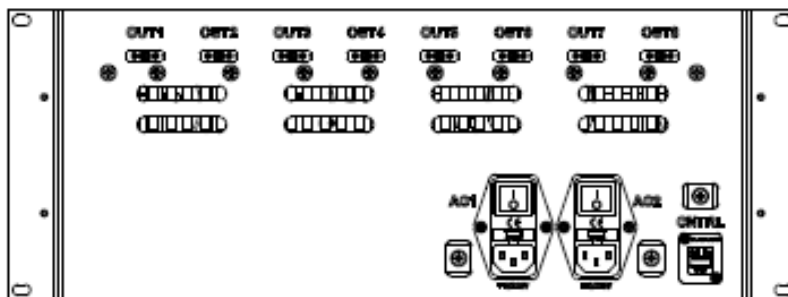
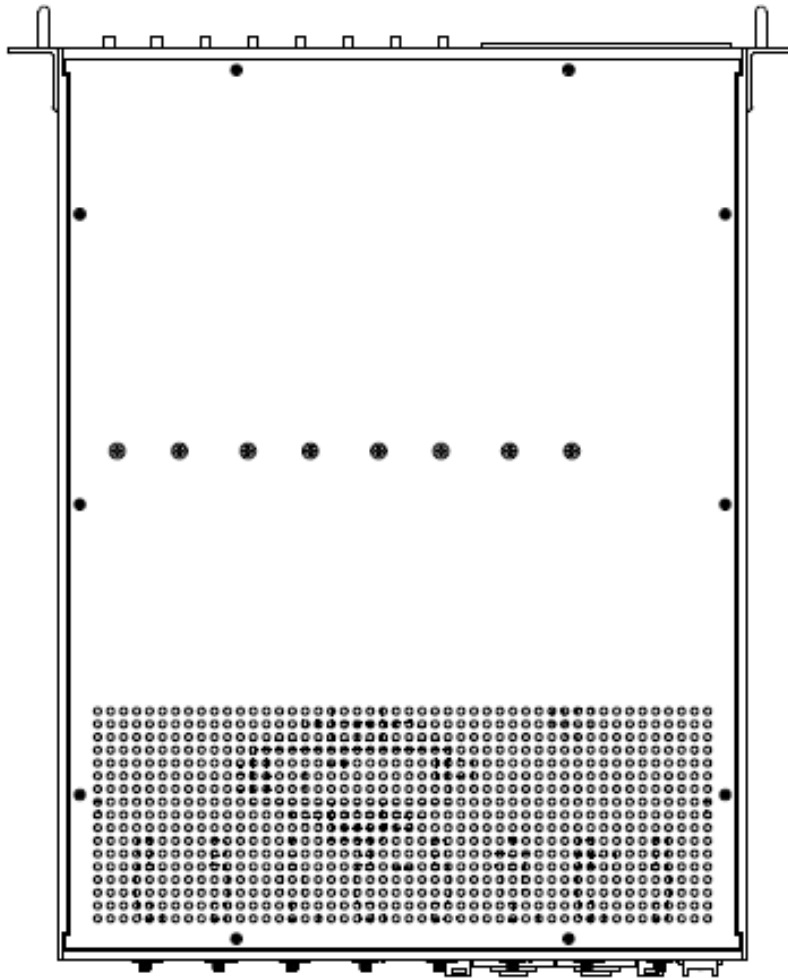
Rear Panel



Outline Drawing



[Rear View]



Rear View