



MAT244 is very flexible combiner especially designed to manage RF in a multi-site production environment. It can:

- route RF in several possible configurations
- control antenna remotely,
- manage attenuation/boost for the different areas,
- monitor RF and interferences thru and integrated RF meter.

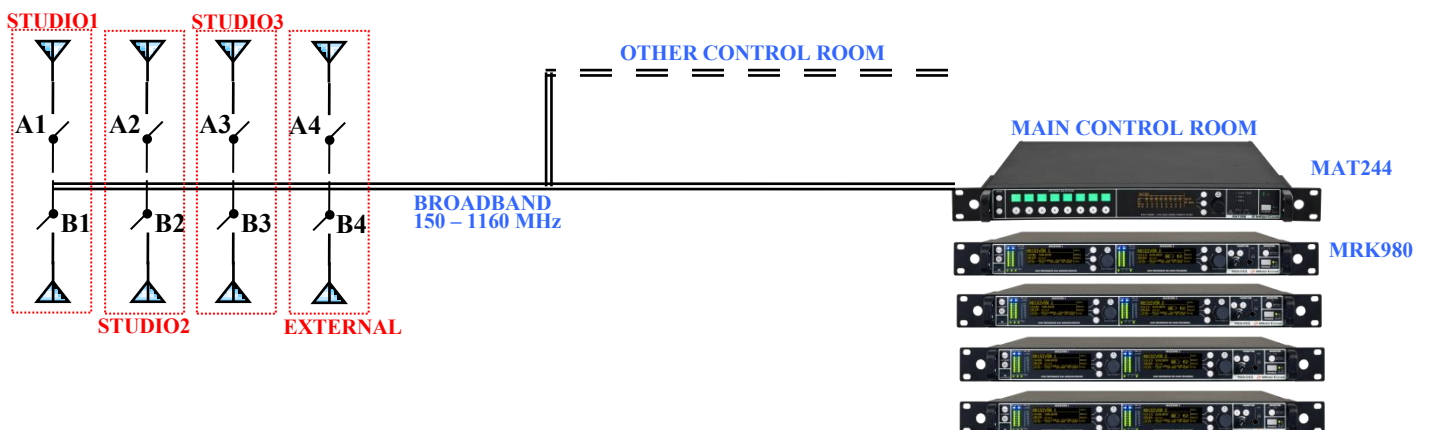
All of this can be done remotely thanks to an Ethernet interface and a very intuitive PC software.

MAT244 can be configure locally of by SW as a diversity combiner 4:2 with 6dB gain or in a non-diversity combiner 8:4 / 8:1.

MAIN TECHNICAL FEATURES

- ✓ Combiner mode: **diversity** 4:2 / **non-diversity** 8:1 or 8:4 (SW configurable)
- ✓ Wide bandwidth: from **150** up to **1160 MHz**
- ✓ Remote management and monitor of alarms thru Ethernet 10/100 base TX
- ✓ Antenna booster supply toggled on each input independently
- ✓ Voltage and current monitoring on each booster supply with alarm
- ✓ **Programmable attenuators** on each inputs
- ✓ Remote boost control (for gain/bandwidth) with a bidirectional data link thru coax (input BNCs)
- ✓ light window where the user can enter their own text to identify the 8 areas

FUNCTIONAL DRAW (example):



TECHNICAL DATA:

- Power supply : AC connector 90÷264Vac / T2A, 47÷63Hz
- Working frequency : 150 ÷ 840MHz (MAT244),
150 ÷ 960MHz (MAT244X),
150 ÷ 1160MHz (MAT244X1)
- Amplifier linearity : ± 1 dB (typical)
- "A" / "B" antenna input : 8 BNC type connectors
- antenna output : 4 BNC type connectors
- Impedance : 50 ohm
- Input/output Gain : 7 dB (Combiner 8:1), OIP3=30dBm typ.
0 dB (Combiner 8:4), OIP3=24dBm typ.
7 dB (Combiner 4:2), OIP3=30dBm typ.
- Noise Figure : 5.5dB (each channel)
- Antenna booster powering : +12Vcc / 800mA MAX for ports 1A, 1B [2x4:2 conf] or
for port 1,5 [other configuration]
: +12Vcc / 230mA MAX (other ports)
- Configuration/monitor interfaces : 10/100 Base TX Ethernet port
- Display : 64 x 256 OLED (yellow)
- Dimension : Standard rack (aluminum) 19" / 1U.
- Weight : 3,7 Kg

BLOCK DIAGRAM
