

ACTIV™ AUDIO Ethernet Electromagnetic Interference (EMI) Filter



Unmatched Filtering Performance

The ACTIV™ AUDIO EMI Filter is the most advanced and effective EMI filter for streaming audio available on the market. Utilizing proprietary Digital Signal Processing (DSP) techniques, the ACTIV™ AUDIO filter faithfully reproduces streaming audio packets without undesirable or extraneous interference. The filter rejects unwanted signals from 50Hz and below all the way up to 40GHz at better than 100dB – that's a noise reduction of 99.99999999%! Military grade passive filtering technology further ensures that digital music packets traverse the filter in complete and

absolute isolation from each other and the outside world. Signal lines are balanced perfectly throughout the multilayered cards to avoid disturbing the fast rise times required by digital square wave signals. The result is a pristine digital output far surpassing the results of fiber-based solutions or any other EMI filter.

Superior Precision and Reliability

Each ACTIV™ AUDIO Filter is constructed with the highest grade electrical components, starting with a super accurate, ultra stable high speed crystal clock which drives the specially developed DSP circuitry and Ethernet chipset. To protect the digital signal integrity and sensitive circuitry of the filter, incoming power is also filtered, conditioned and protected against deviations from exact voltage and current levels. The circuit cards are then mounted in a sleek, protective housing machined from solid aluminum stock. The housing not only provides physical protection to the filter components, but is also an integral contributor to the filter's effectiveness. The unique structure of the housing effectively disrupts undesirable emissions from propagating through the filter while simultaneously providing low impedance pathways for interference to be directed to ground.

**The ACTIV™ AUDIO EMI Filter
Unleash Pristine Audio.**

