

10 GBIT LAN FILTER - 7890



The 10 Gbit LAN filter is made to transfer ethernet between 10 Mbps up to 10 Gbps while rejecting interfering frequencies. It rejects external frequencies from 100 MHz to 40 GHz at above 100 dB.

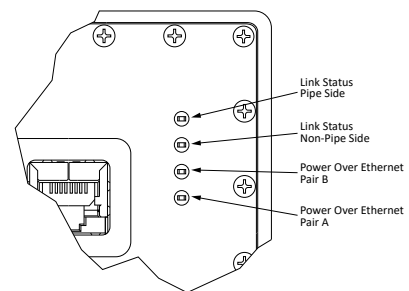
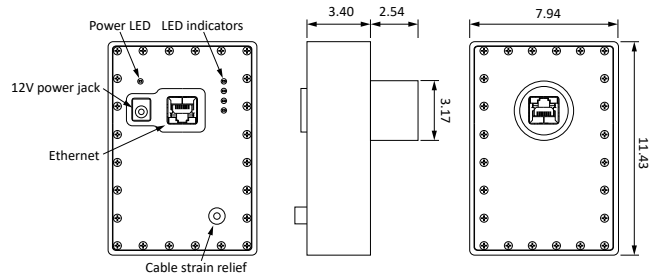
The filter is powered from an external supply via a power connector. It will auto-negotiate to all standard rates and chooses the fastest data rate supported by both end points (including 10M, 100M, 1000M, 2.5G, 5G and 10GBASET Ethernet). It's also backwards compatible with previous ethernet standards.

Data is passed from one Ethernet jack to another while radiated and conducted interference and noise is eliminated. Filtering is bi-directional.

A POE source or power injector and a POE sink complying with the IEEE 802.3bt standard can negotiate through the filter to supply power at up to 100 Watts. Power passing through the unit is filtered from 100 MHz to 40 GHz as well. The POE is capable of transferring up to 1 A per pair.

Connectors	RJ-45-8P8C Jack
Power Connector	2.0 or 2.1 x 5.5mm Barrel Jack Connector 12 VDC Nominal Input, 12 W Max
Mounting	1 1/4-18 UNEF – 2A Threaded Pipe 1" Long with Flanged Nut

DIMENSION AND DRAWING



ELECTRICAL SPECIFICATIONS

Data Pairs (4 Pair) Auto-Negotiates all Base T Data Rates	10 Mbps, 100 Mbps, 1000 Mbps, 2.5 Gbps, 5 Gbps, & 10 Gbps
Isolation (All Lines)	100 MHz ~ 40 GHz >100 dB
Data Line Balanced Impedance	100 Ω Typical
Power	12 VDC, 1.5 A Max
POE Pass-Thru	48 to 60 VDC, 1 A Max per Pair
Indicator LEDs	Power: Lit when Power is Active Link Status (Pipe Side): Lit when Data is Being Transferred Link Status (Non-Pipe Side): Lit when Data is Being Transferred POE Pair B: Lit when POE is Active POE Pair A: Lit when POE is Active
Link Status LED Color (Indicate Link Speed)	10 Mbps: Red 100 Mbps: Green 1000 Mbps: Dark Blue 2.5 Gbps: Yellow 5 Gbps: Purple 10 Gbps: Light Blue