

Test Chamber Filters



Dual Gigabit Ethernet, Gigabit Ethernet + USB 2.0

Key Points

- Provides 10/100/1000 Mbps Ethernet pass-through with RF rejection.
- Four internal differential filters for each pair of data lines.
- (GigE+USB) Provides one port 10/100/1000 Mbps Ethernet pass-through and one port of USB 2.0 with RF isolation.
- (GigE+USB) One internal differential filter for USB 2.0 data and a low pass filter for USB +5V power.
- Compatible with POE A and B devices.
- Only one cut out required for dual Ethernet connectors installation.
- Simple four mounting screws for chassis mounting.

Overview

RF leakage through Ethernet and USB cables can destroy even the best RF enclosures and chambers. The need for filtering in the ever congested RF environment requires special filters that can pass USB 2.0 and 10/100/1000 Mbps Ethernet signals and filter out unwanted higher frequencies such as cellular and WiFi. The Adaura Technologies USB/Gigabit Filters provide one GigE and one USB 2.0 pass-through connections while filtering out other RF up to 8GHz. It has a small form factor to allow easy installation. It is a most cost effective solution for a clean chamber set up. In a typical chamber, WiFi signals are reduced to <-100dBm with this filter installed

Adaura Technologies LLC

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Test Chamber Filters

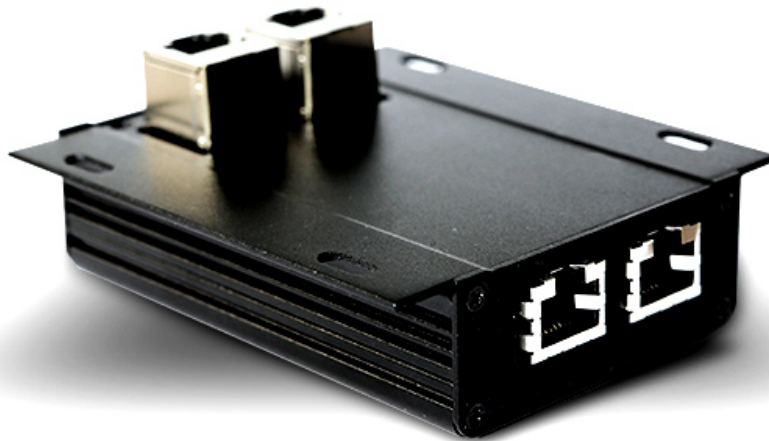


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USB 2.0 + Gigabit Ethernet



Dual Gigabit Ethernet



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Included Accessories (Dual Gigabit Ethernet)

- Filter module with EMI gasketing pre-installed
- (2) 5' Shielded CAT7 Ethernet cable
- Mounting template
- Mounting hardware

Included Accessories (Gigabit Ethernet & USB 2.0)

- Filter module with EMI gasketing pre-installed
- (1) 5' USB shielded type A to type B cable
- (1) 5' Shielded CAT7 Ethernet cable
- Mounting template
- Mounting hardware

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Gigabit Ethernet & USB Filter

OptiMeasure Series

Ethernet	Ethernet Standards:	10/100/1000BASE-T
	Transparent POE Modes:	A and B
	Insertion Loss 400 Mhz:	-3dB Typical
	Insertion Loss 900 Mhz:	-40dB Typical
	Insertion Loss 2400 Mhz:	-65dB Typical
USB	Insertion Loss 6000 Mhz:	-65dB Typical
	USB Rate:	2.0
	Maximum Current:	2A
	Impedance:	90Ω
	DC Resistance:	0.1

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Rejection Performance

Frequency (GHz)	Rejection (dB)
0.1	0
0.3	0
0.4	-10
1.0	-40
2.0	-55
10.0	-60

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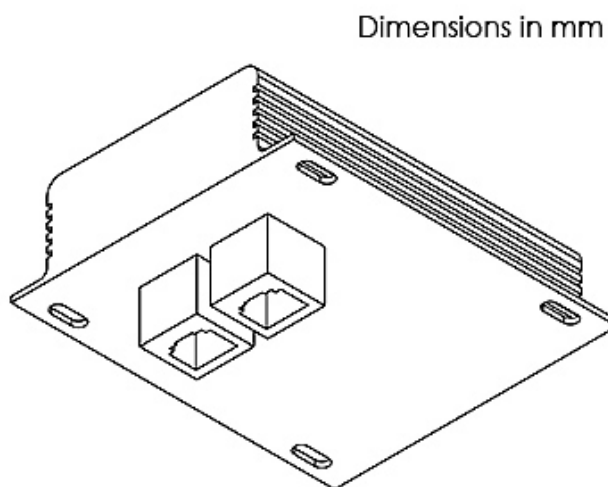
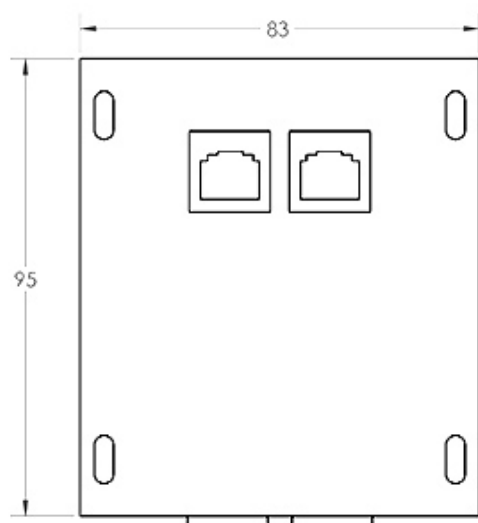
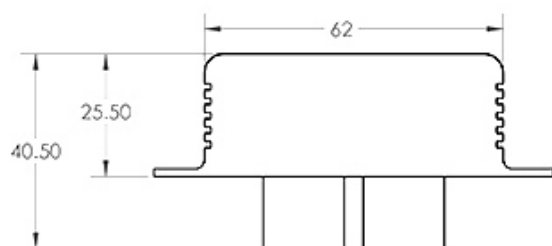
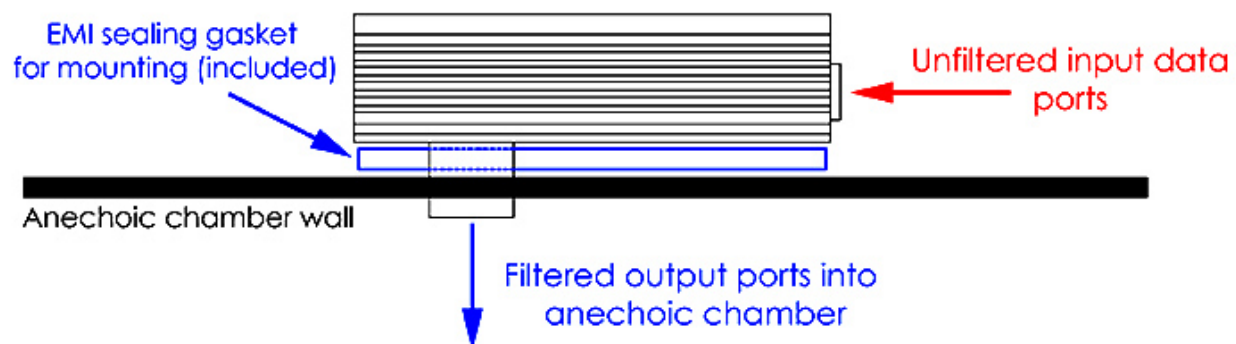
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Mechanical Drawing



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