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List of AVB-capable Ethernet switches

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Biamp uses the IEEE 802.1 Audio Video Bridging (AVB) open standard to transmit AV traffic between Tesira devices. AVB is built into Ethernet and incorporates other 802.1 standards for automatic VLAN configuration, automatic multicast address assignment, stream reservation, traffic shaping, guaranteed delivery and time synchronization. Like all 802.1 standards, AVB support is required on the switch.

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All switches described in this article have been informally tested with Biamp Tesira products¹. Due to differences in switch designs (switching capacity, CPU speed, etc.), each model has different abilities for the maximum number of AVB streams and devices it can manage. Contact the switch manufacturer for more detailed information.

For switches we do not recommend see our [List of not recommended AVB ethernet switches here.](#)

Biamp strongly recommends Avnu Certified switches when using devices from different manufacturers. The Avnu Alliance is a community creating an interoperable ecosystem of low-latency, time-synchronized, highly reliable networked devices using open standards through certification. Devices that pass independent lab testing receive Avnu certification.

Biamp Tesira AVB endpoints are Avnu Certified. [See the Avnu Alliance website for a list of certified products.](#)

Recommended AVB switches.

Vendor	Model	Type	1G / SFP Ports	PoE+	Avnu Certifie
Biamp	TesiraCONNECT TC-5	Edge	5	4	No
Biamp	TesiraCONNECT TC-5D	Edge	5	4	No
Biamp	NMS-NG10GPX-AVB	Edge	10 / 2 SFP+	8	Yes
Biamp	NMS-NG26GPX-AVB	Edge	26 / 4 SFP+	24	Yes
Biamp	NG GS724T AVB V4	Edge	24	No	No
Clscio	Catalyst 9300 Series	Edge	24-48 / NM	Yes	Yes
Cisco	C9300-24P	Edge	24 / NM	Yes	Yes
Cisco	C9300-48P	Edge	48 / NM	Yes	Yes
Cisco	C9300-24U	Edge	24 / NM	Yes	Yes
Clscio	C9300-48U	Edge	48 / NM	Yes	Yes
Cisco	Catalyst 9500 Series	Core		No	



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Cisco	C9500-12Q		Core	12x 40G	No	Yes
Cisco	C9500-16X		Core	16x 1/10G	No	Yes
Cisco	C9500-24Q		Core	24x 40G	No	Yes
Cisco	C9500-40X		Core	40x 1/10G	No	Yes
Cisco	C9500-48Y4C		Core	48x 1/10/25G 4x 40/100G	No	Yes
Cisco	Catalyst 3650 Series (EOS)					Yes
Cisco	C3650-24PDM		Edge	24	390w	Yes
Cisco	C3650-48FQM		Edge	48	775w	Yes
Cisco	C3650-8X24PD		Edge	24	435w	Yes
Cisco	C3650-8X24UQ		Edge	24	820w	Yes
Cisco	C3650-12X48FD		Edge	48	660w	Yes
Cisco	C3650-12X48UQ		Edge	48	660w	Yes
Cisco	C3650-12X48UR		Edge	48 / 8 x 10G	660w	Yes
Cisco	C3650-12X48UZ		Edge	48 / 2 x 40G	660w	Yes
Cisco	Catalyst 3850 Series (EOS)					Yes
Cisco	C3850-12X48U		Edge	48 / 12 x 10G	630w / 1730w	Yes
Cisco	C3850-24XU		Edge	24	580w / 1680w	Yes
Cisco	C3850-12XS		Core	12x SFP	No	Yes
Cisco	C3850-16XS		Core	16x SFP	No	Yes
Cisco	C3850-24XS		Core	24x SFP	No	Yes
Cisco	C3850-32XS		Core	32x SFP	No	Yes
Cisco	C3850-48XS		Core	48x SFP	No	Yes
Extreme	X435 Series		Edge	8-24	Yes	No
Extreme	X435-8T-4S		Edge	8 / 4 x 1/2.5G	No	No
Extreme	X435-8P-4S		Edge	8 / 4 x 1/2.5G	Yes	No
Extreme	X435-8P-2W		Edge	8 + 2	Yes	No
Extreme	X435-24T-4S		Edge	24 / 4 x 1/2.5G	No	No
Extreme	X435-24P-4S		Edge	24 / 4 x 1/2.5G	Yes	No
Extreme	X440-G2		Edge	12-48	Yes	No
Extreme	X450-G2		Edge	24-48	Yes	No



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Extreme	X460-G2		Edge	24-48	Yes	Yes
Extreme	X465 Series		Edge	24-48	Yes	No
Extreme	5320 Series		Edge	24-48	Yes	No
Extreme	5420 Series		Edge	24-48	Yes	No
Extreme	5520 Series		Edge	24-48	Yes	Yes
Extreme	X590 Series		Core	Options	No	No
Extreme	X620 Series		Core	Options	No	No
Extreme	X670-G2		Core	Options	No	No
Extreme	X690 Series		Core	Options	No	No
Extreme	X695 Series		Core	Options	No	No
Extreme	X870 Series		Core	Options	No	No
L-Acoustics	LS10		Edge	8 / 2 SFP	No	Yes
Luminex	GigaCore 10		Edge	8 / 2 SFP	Opt 130w	Yes
Luminex	GigaCore 12		Edge	12	Opt 160w	Yes
Luminex	GigaCore 14R		Edge	12 / 2 SFP	Opt 160w	Yes
Luminex	GigaCore 16RFO		Edge	12 / 4 SFP	Opt 160w	Yes
Luminex	GigaCore 16Xt		Edge	12 / 4 SFP	Opt 160w	Yes
Luminex	GigaCore 26i		Edge	24 / 6 SFP	Opt 270w	Yes
Netgear	M4250-16XF		Core	16 x SFP+	No	Yes
Netgear	M4250-12M2XF		Edge	12 / 2 SFP+	No	Yes
Netgear	M4250-10G2XF-PoE++		Edge	10 / 2 SFP+	720w	Yes
Netgear	M4250-10G2F-PoE+		Edge	10 / 2 SFP+	125w	Yes
Netgear	M4250-10G2XF-PoE+		Edge	10 / 2 SFP+	240w	Yes
Netgear	NMS-NG10GPX-AVB (Biamp)		Edge	10 / 2 SFP+	240w	Yes
Netgear	M4250-26G4F-PoE+		Edge	26 / 4 SFP+	300w	Yes
Netgear	M4250-26G4XF-PoE+		Edge	26 / 4 SFP+	480w	Yes
Netgear	M4250-26G4F-PoE++		Edge	26 / 4 SFP+	1440w	Yes
Netgear	M4250-40G8F-PoE+		Edge	40 / 8 SFP+	480w	Yes



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Netgear		M4250-40G8XF-PoE+	Edge	40 / 8 SFP+	960w	Yes
Netgear		M4250-40G8XF-PoE++	Edge	40 / 8 SFP+	2880w	Yes
Netgear		GS724Tv4	Edge	24	No	No
Netgear		GS748Tv5	Edge	48	No	No
Niveo		NGSME9AVB	Edge	8	4 POE+	Yes

Further Reading

- [Tesira network infrastructure](#)
- [Video network design](#)
- [Explicit AVB streams \(IEEE 1722.1\)](#)
- [AVB Media Converters](#)
- [List of not recommended AVB-capable ethernet switches](#)

1. Manufacturer specifications can change without notice. Biamp Systems strives to keep this list up to date, but is not always made aware of changes made by third parties to the Ethernet switches referenced, and therefore Biamp Systems cannot guarantee compatibility with any of the products listed on this page.


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Was this article helpful?


Yes No


Recommended articles

 [AVB Media Converters](#)
A list of AVB media converters confirmed to work with Tesira products.

 [List of not recommended AVB Ethernet switches](#)
A current list of Ethernet switches and media converters that have been confirmed to work with Tesira products.

 [Connecting to an Extreme switch](#)

 [Enabling AVB on Extreme Networks switches](#)
This article explains how to perform some common tasks on Extreme Networks Summit series switches.

 [Using Dante and AVB protocols together on the Netgear GS724Tv4 switch](#)
This article will show you how to use Dante and AVB protocols together on the Netgear GS724Tv4 switch

Article type: [Reference](#) Stage: [Final](#) Tags: [AVB](#), [extreme commands](#), [Extreme Networks](#), [netgear](#)



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