

Switches recommended for use with DirectOut devices

DirectOut recommends using switches with PTP support for AES67/RAVENNA and Dante. If no PTP-aware switch can be used, a managed switch with configurable QoS and IGMP v2 support may be used instead. However, this will impact the quality of the PTP synchronization. If external (non-networked) devices are involved in the setup, PTP-aware switches are always required.

DirectOut devices were successfully tested with the following switches and Network Audio protocols:

Luminex GigaCore Switches	
https://www.luminex.be/products/gigacore/	
Supported Formats	AES67/RAVENNA, Dante, AVB/Milan, Soundgrid
PTP support	IEEE1588 v2, Transparent Clock and Boundary Clock *
QoS	configurable
IGMP	v2 and v3 support
PoE	available
NOTE: Link Redundancy (RLinkX) is supported with Soundgrid, Link Aggregation (MultiLinkX) is not supported with Soundgrid.	

Netgear AV-Line M4250	
https://www.netgear.com/de/business/wired/switches/fully-managed/gsm4212p/	
Supported Formats	AES67/RAVENNA, Dante, AVB/Milan
PTP support	IEEE1588v2, Transparent Clock
QoS	configurable
IGMP	NETGEAR IGMP Plus™
PoE	available

Netgear AV-Line M4350	
https://www.netgear.com/de/business/wired/switches/fully-managed/m4350/	
Supported Formats	AES67/RAVENNA, Dante, AVB/Milan
PTP support	IEEE1588v2, Transparent Clock
QoS	configurable
IGMP	NETGEAR IGMP Plus™
PoE	available

Artel Quarra Series	
https://www.artel.com/solutions/quarra/	
Supported Formats	AES67/RAVENNA, Dante, Soundgrid
PTP support	IEEE1588 v2, Transparent Clock and Boundary Clock modes
QoS	configurable (including QoS translation)
IGMP	v2 and v3 support
PoE	available
Switch:	https://www.artel.com/media-transport-products/quarra-ptp-10-gbps-ethernet-switch/
Configuration Guide:	https://www.artel.com/wp-content/uploads/2019/01/Quarra-Configuration-Guide-for-AES67-TC-and-BC-v20-6-24.pdf

* Under Development

Arista 7020TR48	
https://www.arista.com/en/products/7020r-series	
Supported Formats	AES67/RAVENNA, Dante
PTP support	IEEE1588v2, Boundary Clock (in more than one VLAN)
QoS	configurable
IGMP	v2 and v3 support
PoE	not available

Arista 710p	
https://www.arista.com/en/products/710p-series	
Supported Formats	AES67/RAVENNA, Dante
PTP support	IEEE1588v2, Boundary Clock
QoS	configurable
IGMP	v2 and v3 support
PoE	available