Product Highlights

Performance

- 7130-16G3: 16x100M/1GbE/10GbE
- 7130-48G3: 48x100M/1GbE/10GbE
- 7130-96: 96x100M/1GbE/10GbE
- Non blocking
- Nanosecond-level L1 forwarding
- Deterministic

Advanced L1 functionality

- Signal regeneration
- Media conversion
- Port mirroring
- Telemetry
- Dynamic patching/link management
- Layer 1+ statistics on every link

Core Features

- SFP+ ports capable of 100M-11.3Gbps
- Full signal recovery & regeneration
- Bit for bit forwarding for any protocol
- Layer 1+ packet statistics

Ultra low latency

- 4 ns deterministic latency (7130-16/48G3)
- 6 ns deterministic latency (7130-96)
- Less than 100 ps jitter
- Same latency for 1:N port mirroring
- Completely non-blocking

Redundancy & data center

- 1 or 2 rack unit (RU)
- Dual redundant, hot swappable PSU
- Dual redundant, hot swappable fans
- AC & DC power options
- Rear to front or front to rear cooling

Monitoring

- Packet statistics on every port
- Embedded influxdb database
- Eye diagram for monitoring/troubleshooting
- tcpdump for diagnostics on every port
- LLDP for discovering network topology
- Full SFP+ interface diagnostics including light levels, temperature & voltage

Management platform

- Linux based
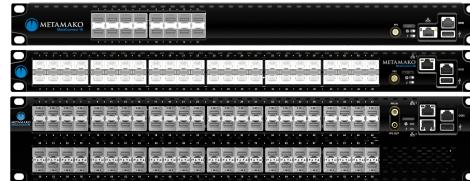- Industry standard CLI
- JSON RPC API for remote management

Overview

The Arista 7130 Connect Series fixed systems are powerful network devices designed for ultra low latency and offer a wealth of integrated management features and functionalities.

The 7130 Connect Series switches forward data between ports in 4 nanoseconds with full signal recovery and regeneration. They are non-blocking, deterministic with virtually undetectable jitter, and do not buffer or queue data. State of the art signal integrity circuitry allows for flexible use of SFP/SFP+ including long-range multi-mode (LRM) as well as passive and active direct-attach copper cables.

The 7130 Connect Series platform is packet-aware providing comprehensive packet statistics, signal quality monitoring including eye diagrams, and diagnostics. Packet replication provides the ability to sniff packets without affecting the data path.

The Arista's 7130 Connect Series Layer 1+ switches can be used in a network as a remotely configurable patch panel, for one to many data broadcast, ad-hoc tapping, media conversion, and link monitoring with the same overhead as a meter of fiber and no degeneration of signal quality.

Arista 7130 Connect Series

Feature	Benefits
4 - 6 ns deterministic latency	Rich feature set with latency as low and as deterministic as a meter of fiber
Crosspoint switch	Acts as remotely configurable patch panel, kin-switch and can perform bypass for failed links.
Media conversion	Reduces costs by converting between different media types running at the same rate
Protocol agnostic	Connects any bit-stream including fiber-channel and CPRI with regeneration to improve signal quality
Layer 1+ packet stats	Provides higher-level packet statistics across all ports with layer 1 performance
Signal integrity	Provides full clock and data recovery on both input and output
X86-64 Linux management	Open standards based operating system
Cable compatibility	Compatible with suite of SFP+ modules and direct attach copper cables

Model Comparison	7130-16G3	7130-48G3	7130-96
Ports	16 x SFP+ 1 x RJ45	48 x SFP+ 1 x RJ45	96 x SFP+ 2 x RJ45
Throughput	100M-11.3Gbps	100M-11.3Gbps	100M-11.3Gbps
Latency	4 ns	4 ns	6 ns
CPU	Quad-Core x86	Quad-Core x86	Quad-Core x86
System Memory	8 GB RAM	8 GB RAM	8 GB RAM
On-board SSD	64GB	64GB	64GB
USB Ports	1	1	1
100/1000 Mgmt Ports	2	2	2
RS-232 Serial Ports		1 (RJ-45)	
Hot-swap Power Supplies		2 (1+1 redundant)	
Hot-swappable Fans		2 x 2 (1+1 redundant)	
Reversible Airflow Option		Yes	
Rack Units	1U	1U	2U
Size (WxHxD)	17.6 x 1.7 x 14.9" (44.8 x 4.3 x 37.9 cm)	17.6 x 1.7 x 14.9" (44.8 x 4.3 x 37.9 cm)	17.6 x 3.3 x 14.9" (44.8 x 8.7 x 37.9 cm)
Max Power Draw	190W	190W	388W
Weight	9kg/20lbs	9kg/20lbs	10kg/22lbs
Fan Tray	FAN-7130-1U-F FAN-7130-1U-R	FAN-7130-1U-F FAN-7130-1U-R	FAN-7130-2U-F FAN-7130-2U-R
Power Supplies	460W AC 460W DC	460W AC 460W DC	460W AC 460W DC

Supported Optics and Cables

Interface Type	SFP+ ports
1000BASE-T	RJ45
10GBASE-CR	SFP+ to SFP+: 0.5m-5m
10GBASE-SRL	100m
10GBASE-SR	300m
10GBASE-LRL	1km
10GBASE-LR	10km
10GBASE-ER	40km
10GBASE-DWDM	80km
40GBASE-CR4	QSFP+ / SFP+

Standards Compliance

EMC	Emissions: FCC part 15, Subpart B, ICES-003 Class A, EN55022:2010, EN55032:2012; CISPR32:2012, AS/NZS CISPR32: 2015, EN61000-3-2:2014, EN 61000-3-3:2013 Immunity: EN55024:2010;CISPR 24:2010+A1:2015 EN55035: 2017 EN300 386 V2.1.1 (2016-07)
Safety	UL60950-1 2nd Ed, CAN/CSA-C22.2, EN60950-1 2nd, IEC 60950-1
Certifications	FCC 15B/ ICES-003 North America NRTL European Union CE DoC Taiwan BSMI CNS 13438, CNS 14336-1, CNS 15663 Australia-New Zealand RCM S. Korea KC Japan VCCI 32 Russia EAC Custom Union Mexico Certificate of Equivalence

Environmental Characteristics

Operating Temperature	0 to 40°C (32 to 104°F)
Relative Humidity	10% to 85% non-condensing
Maximum Altitude	2,000m (6,500ft)

Power Supply Specifications

Power Supply	PWR-460-AC	PWR-460-DC
Input Voltage	100-240AC	40-72V DC
Typical Input Current	2.2-5.3A	12.8-7.1A 11.3A at -48V
Input Frequency	50/60Hz	DC
Input Connector	IEC 320-C13	AWG #16-#12

Product Number	Product Description
DCS-7130-16G3#	Arista 7130 Series G3 Connect 16 Layer-1 Switch, configurable fans & psu
DCS-7130-48G3#	Arista 7130 Series G3 Connect 48 Layer-1 Switch, configurable fans & psu
DCS-7130-96#	Arista 7130 Series Connect 96 Layer-1 Switch, configurable fans & psu

Optional Components and Spares

Product Number	Product Description
KIT-7130-AC-FAN-R	Arista 7130 Series 1RU AC PS and Fan Kit Rear to Front (Spare)
KIT-7130-AC-FAN-F	Arista 7130 Series 1RU AC PS and Fan Kit Front to Rear (Spare)
KIT-7130-DC-FAN-R	Arista 7130 Series 1RU DC PS and Fan Kit Rear to Front (Spare)
KIT-7130-2-AC-FAN-R	Arista 7130 Series 2RU AC PS and Fan Kit Rear to Front (Spare)
KIT-7130-2-AC-FAN-F	Arista 7130 Series 2RU AC PS and Fan Kit Front to Rear (Spare)
KIT-7130-2-DC-FAN-R	Arista 7130 Series 2RU DC PS and Fan Kit Rear to Front (Spare)
FAN-7130-1U-F	Spare fan module for Arista 7130 Series 1U (front-to-rear airflow)
FAN-7130-1U-R	Spare fan module for Arista 7130 Series 1U (rear-to-front airflow)
FAN-7130-2U-F	Spare fan module for Arista 7130 Series 2U (front-to-rear airflow)
FAN-7130-2U-R	Spare fan module for Arista 7130 Series 2U (rear-to-front airflow)
PWR-460AC-F	Spare 460 Watt AC PSU for Arista 7124SX, 7050, 7130, 7150 & 7048-A Switches (front-to-rear airflow)
PWR-460AC-R	Spare 460 Watt AC PSU for Arista 7124SX, 7050, 7130, 7150 & 7048-A Switches (rear-to-front airflow)
PWR-460DC-F	Spare 460 Watt DC PSU for Arista 7124SX, 7050, 7130, 7150 & 7048-A Switches (front-to-rear airflow)
PWR-460DC-R	Spare 460 Watt DC PSU for Arista 7124SX, 7050, 7130, 7150 & 7048-A Switches (rear-to-front airflow)

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