Alta Rack-mounted Cloud Connectors

Friction-free transition to cloud

The Avigilon Alta rack-mounted Cloud Connectors enable easy integration of third-party devices with Avigilon Alta Video, allowing for a seamless transition to the cloud while leveraging your existing camera deployment and connecting sensors for additional insights. With Cloud Connectors, organizations can leverage the same real-time anomaly detection, proactive notifications and smart search capabilities across your entire deployment of cameras, regardless of their manufacturer. Tap into the simplicity and flexibility of Alta's intelligent video surveillance solutions to proactively safeguard your people, property, and data.

Seamless cloud transition

Forget rip-and-replace. Connect and manage your existing third-party cameras and sensors in the cloud.

One interface, all your sites

Connect devices across all your sites and manage your deployment from anywhere through a browser or a mobile app.

Same analytics as our cloud-native cameras

Make your cameras smarter with scalable and advanced real-time AI. Help improve security and response with fast detections and powerful alerts.

Resilience and failover

Create server groups with multiple Cloud Connectors to minimize downtime and prevent data loss if a device goes offline.

Local display

Get local access for low-bandwidth video displays and resiliency to network and service outages.

Enhanced security

Minimize cyber risks and protect sensitive data with disk encryption and a dedicated Trusted Platform Module.

To learn more, visit avigilon.com/video-infrastructure/cloud-connector

Cloud Connector specifications

	A2100	A3100
Description:	The A2100 Cloud Connector is a 2U rack-mounted unit with 12 hard disks. Suitable for medium-to-large sized deployments, or as part of very large deployments.	The A3100 Cloud Connector is a 2U rack-mounted unit with 12 hard disks and 2 GPUs. Suitable for environments requiring the highest processing density.
Number of cameras supported:	100 cameras	200 cameras
Video storage:	Up to 192TB (raw), 160TB (net)	Up to 256TB (raw), 240TB (net)
Local display:	Display Video views from your Alta Video deployment to a monitor connected to the DisplayPort or USB-C connections on your Alta A2100, and A3100 Cloud Connectors.	

Component specifications

	A2100	A3100
Processor:	Intel Xeon 4410Y	2x Intel Xeon 4410Y
GPU:	Nvidia RTX ADA 4000 GPU	2x Nvidia RTX ADA 4000 GPU
RAM:	8x 16GB RDIMM, 5600MT/s, Single Rank	12x 16GB RDIMM, 5600MT/s, Single Rank
Network interface:	Dual 10Gb Base-T or 2x SFP28 (2x 25Gb)[1]	
SSD (system drive):	BOSS-N1 controller card + with 2x M.2 480GB (RAID 1)	
HDD (Video storage):	12x 8TB or 12x 16TB Surveillance-grade 3.5in Hot-plugable SATA drives	12x 8TB, 12x 16TB, or 12x 20TB Surveillance-grade 3.5in Hot-plugable SATA drives
HDD resiliency:	Avigilon Alta adaptive block-level erasure coding, allowing up to 2 disk failures	
Operating system:	Avigilon Alta Linux-based hardened OS	

[1] SFP Transceivers/GBICs not included.

Electrical specifications

ELECTRICAL	A2100	A3100
Input:	100−240 Vac/12 — 8 A	100−240 Vac/12 — 8 A
Power supply:	Dual, Hot-Plug,Power Supply Redundant (1+1), 1400W, Mixed Mode	Dual, Hot-Plug,Power Supply Redundant (1+1), 1400W, Mixed Mode
Power usage (at 80% load):	569W	935W

Environmental specifications

TEMPERATURE (AT ALTITUDES <= 900M (2953 FT))	A2100	A3100
Storage	-40°F to 149°F (-40°C to 65°C)	
Operating	50°F to 95°F (10°C to 35°C) (with no direct sunlight on the equipment)	

RELATIVE HUMIDITY	A2100	A3100
Non-condensing humidity percentage range	8% RH with 10.4°F (-12°C) minimum dew point to 80% RH with 69.8°F (21°C) maximum dew point	

VIBRATION		A3100
Storage	1.88 G_{rms} at 10 Hz to 500 Hz for 15 minutes (all six sides tested)	
Operating	0.21 G_{rms} at 5 Hz to 500 Hz for 10 minutes (all operation orientations)	

MAXIMUM SHOCK PULSE	A2100	A3100
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axis (one pulse on each side of the system) of 71 G for up to 2 ms	
Operating	Six consecutively executed shock pulses in the positive and negative x, y, and z axis of 6 G for up to 11 ms	

Warranty

	A2100	A3100
Software support:	Avigilon Alta Technical Support	
Cloud Connector[1]:	Five year Warranty, with next day OEM support on-site	
HDD:	RMA via Partner or Avigilon Alta Technical Support	

[1] Including SSD, but excluding HDDs.

Analytics specifications

DETECTED ATTRIBUTES	
Object Attributes	Any object
	Vehicle Sub-types: • Small/Medium Vehicles (sedan, SUV, pickup truck, etc.) • Large Vehicles (bus, truck) • Two-wheeled Vehicles (bicycle, motorcycle) • Unclassified Vehicles Color: • Only this color • Ignore this color License plate[1]: • Any plate • Exact match • Matches group • Starts with • Ends with • Includes • Exclude \<groups\>
	Person: • Fall detection (Search only) • Accessories: With/Without bag, Bag Held/Dropped/Picked up (Search only) • Color: Only this color, Ignore this color, Upper body color, Lower body color
	Face[2]: • All faces • Select watchlists

[1] Requires additional license.

[2] Requires additional license. Check national and local legislation for guidance on the use of face search and face watchlists.

SUPPORTED AUDIO EVENTS	
Audio Events[3]	• Glass breaking • Loud noise • Gun shot • Screaming • Smoke alarm • Car alarm • Ultrasound panic alarm • Dog bark • Tire screeching

[3] Requires additional license. Also requires compatible cameras or microphones.

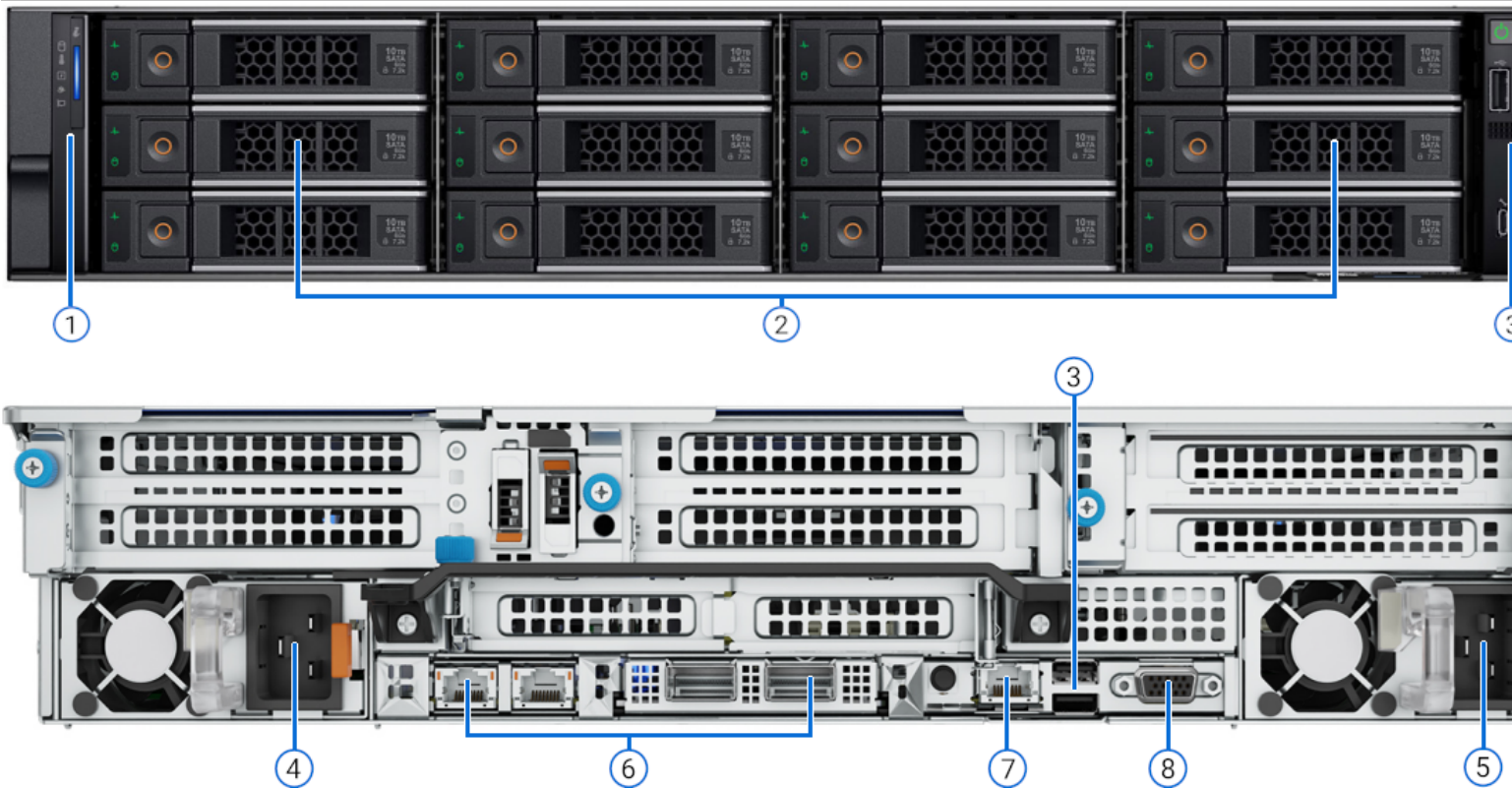| ANALYTIC RULES SUPPORTED	
Anomaly	Rule triggered on detected anomalies based on: • Unusual time of day • Unusual location • Unusual velocity • Unusual sound
Appearance	Rule triggered when an object of the selected type and attributes appears in the region of interest.
Loitering	Rule triggered when an object of the selected type and attributes loiters in the selected area for the selected period of time.
Line crossing	Rule triggered when an object of the selected type and attributes crosses the line. The line can be unidirectional or bidirectional.
Counts	Rule triggered when the count of objects of the selected type either exceeds or is less than the selected threshold.
Line Crossing Count	Rule triggered when the specific number of objects of the selected type either cross a line to enter or leave an area.
License Plate Detection[4]	Rule triggered when a license plate is detected. • Any plate • Exact match • Matches groups • Starts with • Ends with • Includes
Sound[5]	Rule triggered when sounds of specified types is detected.
Access Control	When integrated with suitable access control systems, create rules for access events.

[4] Requires additional license.

[5] Requires additional license. Also requires compatible cameras or microphones.

Buttons and connections

A2100/A3100 buttons and connections

KEY	DESCRIPTION
1	Power button with diagnostic LED
2	Hard drive activity indicator
3	USB Ports
4	Secondary Power connector
5	Primary Power connector
6	Network Interface Card connectors
7	iDRAC port
8	VGA connector

Outline Dimensions

A2100/A3100 DIMENSIONS	
Height	3.42 in. (86.8 mm)
Width	17.10 in. (434 mm)
Depth	32.93 in. (736.3 mm)
Weight	Maximum: 79.6 lbs. (36.1 kg)

Ordering Information

Alta Cloud Connectors (rack-mount form-factor)

PRODUCT NAME	PID	PRODUCT DESCRIPTION
A2100	APP-2100-80-BT	A2100 with 80TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 100 cameras, 12 hard drives, Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A2100	APP-2100-80-SFP	A2100 with 80TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 100 cameras, 12 hard drives, Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A2100	APP-2100-160-BT	A2100 with 160TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 100 cameras, 12 hard drives, Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A2100	APP-2100-160-SFP	A2100 with160TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 100 cameras, 12 hard drives, Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-80-BT	A3100 with 80TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-80-SFP	A3100 with 80TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-160-BT	A3100 with 160TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-160-SFP	A3100 with 160TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-240-BT	A3100 with 240TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A3100	APP-3100-240-SFP	A3100 with 240TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 200 cameras, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.

Cables and replacement drives

PRODUCT NAME	PID	PRODUCT DESCRIPTION
Power cables	AACC-PWC-UKS	Single UK power cable.
Power cables	AACC-PWC-USS	Single US power cable.
Power cables	AACC-PWC-EUS	Single EU power cable.
Power cables	AACC-PWC-IECS	Single IEC C13-C14 power cable.
Replacement drives	AACC-DRV-04TB	Replacement Drive 4TB.
Replacement drives	AACC-DRV-08TB	Replacement Drive 8TB.
Replacement drives	AACC-DRV-12TB	Replacement Drive 12TB.
Replacement drives	AACC-DRV-16TB	Replacement Drive 16TB.
Replacement drives	AACC-DRV-20TB	Replacement Drive 20TB.

Support

For product support, visit: avigilon.com/support or to contact Sales, email sales@avigilon.com.

To learn more, visit: avigilon.com/video-infrastructure/cloud-connector

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