Datasheet | Alta Video | Rack-mount Cloud Connectors | Up to 200 cameras

Avigilon Alta Rack Mount Cloud Connectors

A frictionless cloud transition with powerful video analytics



The Avigilon Alta A1500, A2100, and A3100 Cloud Connectors are rack-mounted server appliances that connect your third-party devices to the cloud-native Alta Video. With support for up to 200 channels per appliance, they enable powerful security and analytics anywhere you need it.

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.

Proactive security with AI

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

Continuous operation

Achieve uninterrupted operation by minimizing downtime and protecting against data loss with server groups that utilize multiple Cloud Connectors.

Local video access

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

MOTOROLA SOLUTIONS

Compliant with NDAA 2019 Section 889

Cloud Connector specifications

	A1500	A2100	A3100
			
Description:	The A1500 Cloud Connector is a 1U rack-mounted unit with 4 hard disks. Suitable for medium sized deployments, or as part of larger deployments.	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 camera sources supported:[1]	75 camera sources	100 camera sources	200 camera sources
Number of consecutive playback sessions:	150	200	400
Video storage:	Up to 96TB (raw), 72TB (net)	Up to 192TB (raw), 160TB (net)	Up to 256TB (raw), 240TB (net)
Local display:	Rack-mounted Cloud Connectors do not include Local display.	Rack-mounted Cloud Connectors do not include Local display.	Rack-mounted Cloud Connectors do not include Local display.

[1] A license is required for each connected camera.

Component specifications

	A1500	A2100	A3100
Processor:	Intel Xeon E-2436	Intel Xeon 4410Y	2x Intel Xeon 4410Y
GPU:	NVIDIA RTX 2000 Ada Generation	NVIDIA RTX 4000 Ada Generation	2x NVIDIA RTX 4000 Ada Generation
RAM:	2x 16GB UDIMM, 5600MT/s ECC	8x 16GB RDIMM, 5600MT/s, Single Rank	12x 16GB RDIMM, 5600MT/s, Single Rank
Network interface:	Dual 1Gb + Dual 10Gb Base-T	Dual 10Gb Base-T or 2x SFP28 (2x 25Gb)[1]	Dual 10Gb Base-T or 2x SFP28 (2x 25Gb)[1]
SSD (system drive):	BOSS-N1 controller card + with 2x M.2 480GB (RAID 1)	BOSS-N1 controller card + with 2x M.2 480GB (RAID 1)	BOSS-N1 controller card + with 2x M.2 480GB (RAID 1)
HDD (Video storage):	4x 16TB, or 4x 24TB Surveillance-grade 3.5in Hot-plugable SATA drives	12x 8TB or 12x 16TB Surveillance-grade 3.5in Hot-plugable SATA drives	12x 8TB, 12x 16TB, or 12x 24TB Surveillance-grade 3.5in Hot-plugable SATA drives

	A1500	A2100	A3100
HDD resiliency:	Avigilon Alta adaptive block-level erasure coding, allowing a single disk failure	Avigilon Alta adaptive block-level erasure coding, allowing up to two disk failures	Avigilon Alta adaptive block-level erasure coding, allowing up to two disk failures
Operating system:	Avigilon Alta Linux-based hardened OS	Avigilon Alta Linux-based hardened OS	Avigilon Alta Linux-based hardened OS

[1] SFP Transceivers/GBICs not included.

Electrical specifications

ELECTRICAL	A1500	A2100	A3100
Input:	100-240 Vac/7.1 - 3.6 A	100–240 Vac/12 — 8 A	100–240 Vac/12 — 8 A
Power supply:	Dual, (1+1) Redundant, Hot-Plug Power Supply, 600W MM	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):	260W	569W	935W

Environmental specifications

TEMPERATURE*	A1500, A2100, AND 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)

* At altitudes <= 900m (2953 ft)

RELATIVE HUMIDITY	A1500, A2100, AND 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	A1500, A2100, AND 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 (all operation orientations)

MAX. SHOCK PULSE	A1500, A2100, AND 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

A1500, A2100, AND 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 and person)
	Vehicle Sub-types: • Small/Medium Vehicles (sedan, SUV, pickup truck, etc.) • Large Vehicles (bus, truck) • Two-wheeled Vehicles (bicycle, motorcycle) • Unclassified Vehicles Vehicle 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
	• Clothing color:
	  • Only this color
	  • Ignore this color
	  • Upper body clothing color
	  • Lower body clothing 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 ANALYTIC RULES	
Access Control[4]	When integrated with suitable access control systems, create rules for access events.

SUPPORTED ANALYTIC RULES	
Anomaly	Rule triggered on detected anomalies based on: • Unusual time of day • Unusual location • Unusual velocity

Appearance	Any object
	Vehicle:
	• Type
	• Color
	• License plate[5]:
	  • Any plate
	  • Exact match
	  • Matches groups
	  • Starts with
	  • Ends with
	  • Includes
	• Use an image
	Person:
	• Accessories: With/without Bag
	• Clothing color
	• Use an image
	Face[6]:
	• All faces
	• Select watchlists

Counts	Rule triggered when the count of objects of the selected type either exceeds or is less than the selected threshold.

SUPPORTED ANALYTIC RULES	

Line crossing	Crossing a virtual line set up for:
	Vehicle:
	• Type
	• Color
	• License plate:
	  • Any plate
	  • Exact match
	  • Matches groups
	  • Starts with
	  • Ends with
	  • Includes
	• Use an image
	Person:
	• Accessories: With/without Bag
	• Clothing color
	• Use an image
	Face:
	• All faces
	• Select watchlists

Loitering	Rule triggered when an object of the selected type and attributes loiters in the selected area for the selected period of time.
Point-of-sale[7]	Search/rule set up based on text field and price.
Sound	Rule triggered when sounds of specified types are detected.

System (Camera issues)	• Any camera
	  • Camera connection failure (timeout after minutes)
	  • Unmet retention period (days)
	• Alta camera
	  • SD card failure
	  • Analytics failure
	  • Camera top cover removed
	  • Camera in recovery mode
	  • Camera not storing
	  • Image health

SUPPORTED ANALYTIC RULES	

System (System issues)	• Internal appliance issues:
	  • Cloud Connector connection issues
	  • Software issues
	  • Disk failures
	  • Disk missing
	  • Disk space
	  • Audi log storage limit (%)
	• External connection issues:
	  • Cloud connection
	  • Access control connection

[4] License not required for Alta Access integration

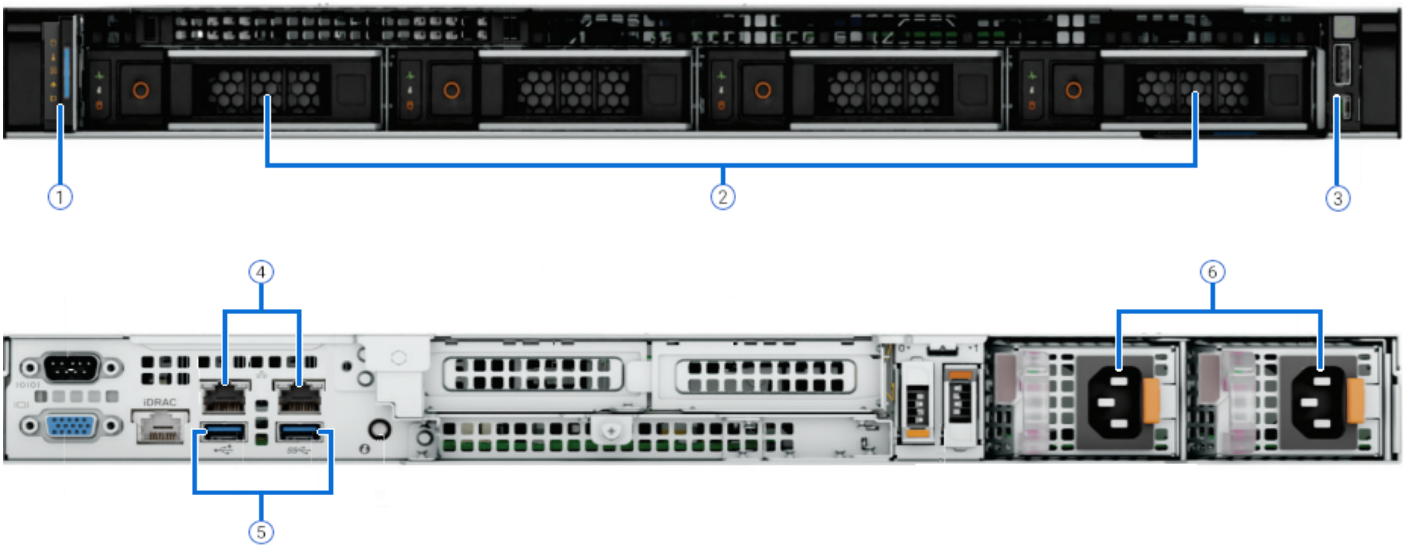
[5] Requires additional license.

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

[7, 8] Requires additional license and integration.

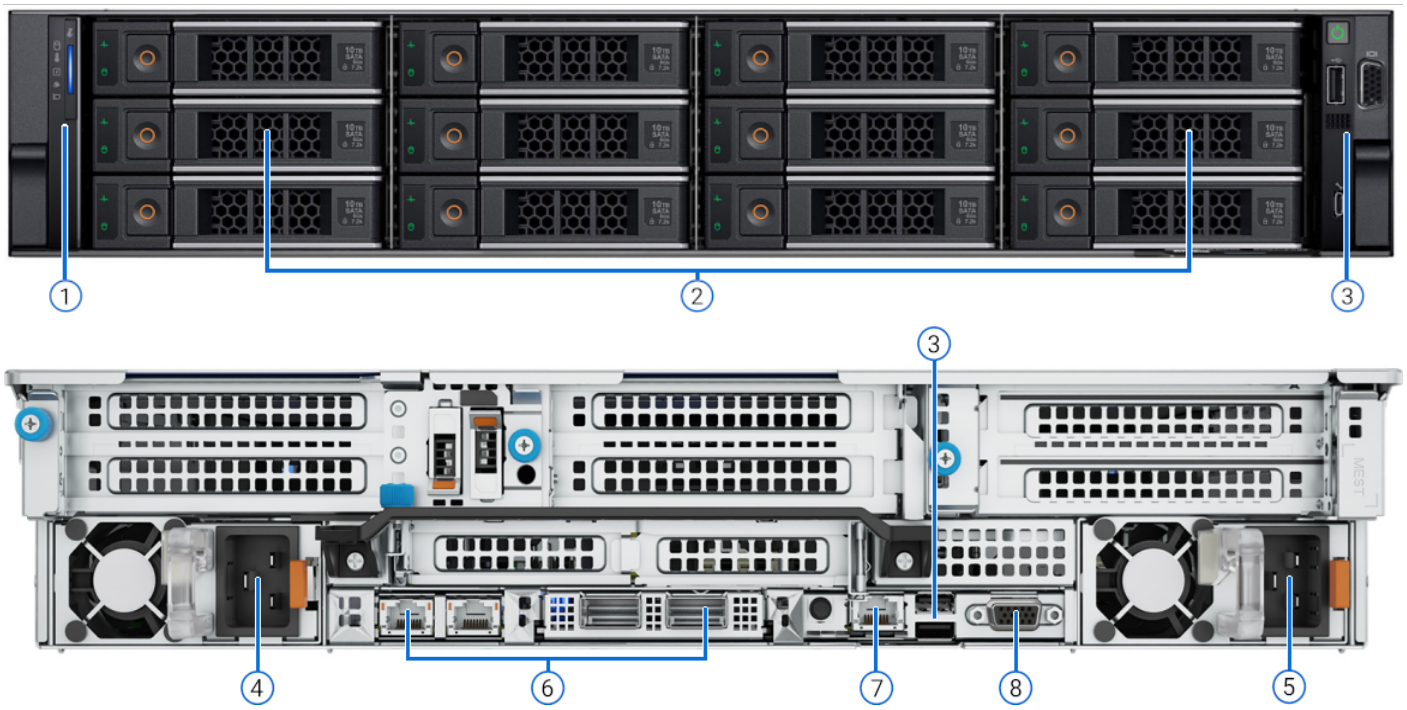
Buttons and connections

A1500 buttons and connections



KEY	DESCRIPTION
1	System health, System ID, and Status LED
2	Hard drive bays
3	Power button, USB port, iDRAC port
4	Dual 10Gb Base-T NIC ports
5	USB ports
6	Power connectors

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

A1500 DIMENSIONS	
Height	1.75 in. (44.45 mm)
Width	17.10 in. (434 mm)
Depth	32.93 in. (736.3 mm)
Weight	Maximum: 29.2 lbs. (13.3 kg)

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

PRODUCT NAME	PID	PRODUCT DESCRIPTION
A1500	APP-1500-48-BT	A1500 1U server with 48TB net storage and 2x1GB + 2x10GB BaseT network connections. Support for up to 75 camera sources, 4 hard drives, Nvidia RTX A2000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A1500	APP-1500-72-BT	A1500 1U server with 72TB net storage and 2x1GB + 2x 10GB BaseT network connections. Support for up to 75 camera sources, 4 hard drives, Nvidia RTX A2000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.
A2100	APP-2100-80-BT	A2100 2U server with 80TB net storage and 4x1GB + 2x10Gb BaseT network connections. Support for up to 100 camera sources, 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 2U server with 80TB net storage and 4x1GB + 2x10Gb SFP+ network connections. Support for up to 100 camera sources, 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 2U server with 160TB net storage and 4x1GB + 2x10Gb BaseT network connections. Support for up to 100 camera sources, 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 2U server with 160TB net storage and 4x1GB + 2x10Gb SFP+ network connections. Support for up to 100 camera sources, 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 2U server with 80TB net storage and 4x1GB + 2x10Gb BaseT network connections. Support for up to 200 camera sources, 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 2U server with 80TB net storage and 4x1GB + 2x10Gb SFP+ network connections. Support for up to 200 camera sources, 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 2U server with 160TB net storage and 4x1GB + 2x10Gb BaseT network connections. Support for up to 200 camera sources, 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 2U server with 160TB net storage and 4x1GB + 2x10Gb SFP+ network connection. Support for up to 200 camera sources, 12 hard drives, 2x Nvidia RTX ADA 4000 GPU, with Alta Aware VMS, standard support, 5-year warranty and power cables included.

PRODUCT NAME	PID	PRODUCT DESCRIPTION
A3100	APP-3100-240-BT	A3100 2U server with 240TB net storage and 4x1GB + 2x10Gb BaseT network connection. Support for up to 200 camera sources, 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 2U server with 240TB net storage and 4x1GB + 2x10Gb SFP+ network connections. Support for up to 200 camera sources, 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-08TB	Replacement Drive 8TB.
Replacement drives	AACC-DRV-16TB	Replacement Drive 16TB.
Replacement drives	AACC-DRV-24TB	Replacement Drive 24TB.

Support

For product support, visit avigilon.com/support.

To learn more, visit: **avigilon.com/video-infrastructure/cloud-connector**. For customer documentation, visit **docs.avigilon.com/bundle/alta-video/page/Products/Cloudconnectors.htm**.

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