

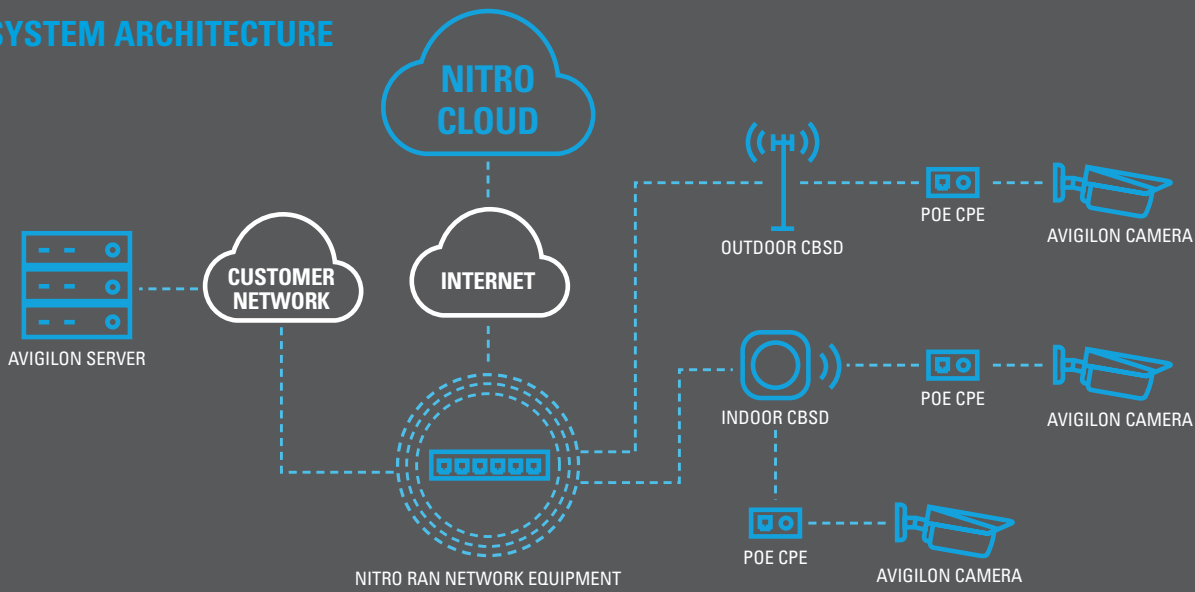


AVIGILON AND NITRO

NITRO CBRS PRIVATE LTE SUPPORTS
AVIGILON VIDEO SECURITY SYSTEMS



SYSTEM ARCHITECTURE



- Avigilon cameras use Nitro LTE network as a wireless backhaul
- Cameras connect to access points via a Customer Premises Equipment (CPE) device
- CPE devices bridge ethernet communications capability with CBRS wireless protocol
- Avigilon server equipment connects into the Nitro networking gear to process video stream data

Nitro by Motorola Solutions is the first fully-managed Citizens Broadband Radio Service (CBRS) platform that combines private broadband data with business-critical voice, delivering enterprise-grade private LTE that outperforms Wi-Fi. Its integration with Avigilon cameras adds unmatched benefits such as reliable video coverage, stable performance, and robust data security and privacy.

With twice the capacity and up to four times the range of Wi-Fi, Nitro removes the unpredictability of traditional Wi-Fi or expensive wired connections so you can do more with less. Confidently cover remote, large or dense sites, including the outdoors where Wi-Fi is not available or stable.

Nitro is designed to be deployed like a Wi-Fi network. Citizens Broadband Radio Service Devices (CBSDs) are mounted in desired locations and connected to the other network gear typically racked in a central location. Avigilon camera connectivity into a Nitro network requires a fixed, third-party OnGo device containing a Nitro SIM card to gain network access and bridge the camera's ethernet communication capability with the network's CBRS wireless protocol.






MINIMUM REQUIRED COMPONENTS FOR NITRO CBRS SOLUTION:

- Citizens Broadband Radio Service Device (CBSD)
- Nitro Edge Gateway
- Firewall/Router
- Network Switch
- PTP Server (Timing Reference) for Indoor Deployments

Ancillary equipment such as antennas, connectors, and cables will be required depending on the system configuration and deployment requirements.



NITRO SYSTEM COMPONENTS

DEVICE IMAGE	DEVICE NAME	DEVICE TYPE	MODEL #	DESCRIPTION
	SLX 2000	CBSD (Access Point)	AAE20048ENA1AN	Indoor CBSD 3550-3700M 250mW. Includes: CBSD with 64 active stream support, wall/ceiling mount hardware, integrated 8dBi antenna, copper ethernet or fiber backhaul, POE++ or 12V DC input, integrated GPS receiver, PTP license.
	SLX 4000	CBSD (Access Point)	AAE40048ENB2AN	Outdoor CBSD 3550-3700M 316mW. Includes: CBSD with 64 active stream support, pole/wall mount hardware (including adapter bands), copper ethernet backhaul, DC -40 to -57V, 10m DC power cable, GPS antenna for direct mount.
	SLN 1000	Two-Way Radio	HK2120A	Purpose-built CBRS radio, delivering highly reliable broadband push-to-talk. Featuring a built-in Wi-Fi hotspot, the SLN 1000 helps you get the most out of legacy radio equipment, while taking advantage of CBRS mobility and security.
	JUNIPER SRX 345 FIREWALL	Firewall/Router (two (2) required)	T8577A	All Nitro networks require a minimum of one (1) SRX 345 for connectivity to the Nitro Cloud Core. Connection will be through the customer-provided Internet connection. Redundant links and/or redundant configurations are supported, additional switching not included.
	HPE ProLiant DL20 Gen10 Server	OnPrem Edge Gateway	SQM01SUM0319A	Includes: Nitro On-Prem Edge Gateway hardware (HP DL 20 appliance), NA AC power cord, and software. If redundancy or expansion is required, order a quantity of two.
	uFalconSTG PTP Bundle	PTP Timing Source	DSBNDLMSI2	Includes: uFalconSTG PTP, AC/DC Power Adapter, and a rack mounting shelf. All Nitro CBSDs require a timing source, either PTP or GPS. The uFalconSTG PTP provides PTP timing for up to 32 CBSDs, AC/DC power adapter and the rack mounting shelf items detailed below.
N/A	Expansion uFalconSTG PTP with AC/DC adapter	PTP Bundle	DSBNDLMSI21	Includes: PTP server with the AC/DC power adapter and is appropriate when a second co-located PTP server is required (i.e. expansion or redundancy).
N/A	EDGE TIMING MASTER	PTP Accessories	DSMFALCONST8SEGHOC	This is an expansion uFalconSTG PTP server that can be purchased to have redundancy in a network, if a network is being expanded beyond 32 CBSDs or if a spare PTP server is desired. The DSBNDLMSI2 bundle already includes a uFalconSTG PTP server.

Learn more at: www.avigilon.com/avigilon-nitro



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