

Title: President

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0793
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Arista Networks	
Manufacturer's Technical Representative: Alika Hirano	
Mailing Address: 5453 Great America Parkway, Santa Clara, CA 95054	
Telephone: (510) 332-1549 Email: ahirano@arista.d	com
EOR CODE CO	
Product Information	MD,
Product Name: Internal Communication Servers and Routers	É
Product Type: Servers & Routers	3
Product Model Number: Cognitive Campus Switches: 722XP Series PoE S	witches
General Description: Rack mounted (2-post) networking equipment.arin	n O
Mounting Description: Rigid, Mounted within a Rigid Floor Mounted Rack	
Tested Seismic Enhancements: None DATE: 12/26/2023	2
Applicant Information	4.
Applicant Company Name: Manwill Engineering LLC	OD
Contact Person: Derek Manwill	
Mailing Address: PO Box 1194, Bend, OR 97709	
Telephone: (541) 241-2102 Email: derek@manwills	se.com



"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Respon	sible for the Engineering and Test Report(s)
Company Name: MANWILL ENGINEERING LLC	
Name: Derek Manwill	California License Number: S6266
Mailing Address: PO Box 1194, Bend, OR 97709	
Telephone: (541) 241-2102 Email	l: derek@manwillse.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
Other (Please Specify):	
EOF	CODECO
Testing Laboratory	Mp
Company Name: NATIONAL TECHNICAL SYSTEMS (N	NTS)
Contact Person: Rajnesh Nand	
Mailing Address: 38995 Cherry Street, Newark CA 9456	05P-0793
Telephone: (510) 578-3500	l:_rajnesh.nand@element.com
DATE	12/26/2023





Overall dimensions and weight =

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters		
Design Basis of Equipment or Components	(Fp/Wp) = 1.44	(SDS=2.00, z/h=1), 1.13 (SDS=2.50, z/h=0)
Sps (Design spectral response accele	ration at short per	iod, g) = 2.00 (z/h=1), 2.50 (z/h=0)
ap (Amplification factor) =	1.0	
R _P (Response modification factor) =	2.5	
Ω0 (System overstrength factor) =	2.0	
lp (Importance factor) =	1.5	
z/h (Height ratio factor) =	1 and 0	
Natural frequencies (Hz) =	See Attachment	

HCAI Approval (For Office Use Only) - Approval Expires on 12/26/2029						
Date:	12/26/2023 OSP-0793	12				
Name:	Mohammad Aliaari	Title:	Senior Structural Engineer			
Special	Seismic Certification Valid Up to: Sps (g) = See Above	z/h =	See Above			
Conditio	on of Approval (if applicable): DATE: 12/26/2023					

See Attachment









ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

ARISTA NETWORKS Cognitive Campus Switches: 722XP Series PoE Switches

TABLE 1						
Model Number		Dimensions (in)		Max. Wt.	Description / Notes	Basis
	Depth	Width	Height	(lb)	·	
Server Rack for Mounting Equipment						
Chatsworth Rack 13853-X03	15.0	24.0	84.0	508	Wt. incl. rack, vert C.G.=44.7in	UUT 1
Mounting: Rigid floor mounted Chatsworth 13853-X03 rack. Use identical			Seismic	$S_{DS} = 2.00g \text{ for } z/h = 1$	I _P = 1.5	
rack with a C.G. less than the listed C	C.G. above.			Levels:	$S_{DS} = 2.50g$ for $z/h = 0$	1p = 1.5

Product Construction: Carbon steel rack. Frame only, doors/panels/accessories of the rack are not certified.

Options/Subcomponents: Rack may contain any combination of subcomponents listed in Table 2. Total weight and C.G. must be less than values listed above.







ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

ARISTA NETWORKS Cognitive Campus Switches: 722XP Series PoE Switches

TABLE 2. SUBCOMPONENTS							
Model Number	Dimensions (in)		Max. Wt.	Description / Notes	Basis		
woder Number	Depth	Width	Height	(lb)	Description / Notes	Dasis	
Type: Cognitive Campus Switches: 722XP Series PoE Switches - Mfr: Arista Networks							
CCS-722XPM-48Y4	14.5	17.5	1.8	15	48 x 10M-1GbE @ 30W	UUT 1	
CCS-722XPM-48ZY8	16.8	17.5	1.8	17	48 x mGig (100M-2.5Gb) @ 60W	UUT 1	
Mounting: Mounted within unit.				Seismic	$S_{DS} = 2.00g \text{ for } z/h = 1$	1 - 15	
Mounting. Mounted within unit.				Levels:	$S_{DS} = 2.50g$ for $z/h = 0$	$I_P = 1.5$	

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.







ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 1

Manufacturer: Arista Networks

Model number: Chatsworth Rack 13853-X03

Unit function: Servers & Routers

Serial number: N/A

Dimensions (in)			Weight	Res	. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
15.0	24.0	84.0	508	17.0	8.8	12.7

Code & criteria: 2022 CBC, ICC-ES AC156

Test laboratory: Element - Newark

Report: 23107TR1.0 (dated 12-18-23), tested on 12-14-23

$S_{DS}(g)$	z/h	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	A _{RIG-V} (g)
2.00	1	3.20	2.40	1.68	(0.69)
2.50	0	3.20	2.40	1.00	$\bigcirc 0.68$

Importance Factor, $I_P = 1.5$: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid floor mounted using (4) 1/2-in Grade 8 bolts.

Construction: Carbon steel rack.

Subcomponents: Arista Networks - Cognitive Campus Switches: 722XP Series PoE Switches (CCS-722XPM-48Y4, CCS-722XPM-48ZY8).

Testing notes: C.G. of unit = 44.7-in from bottom. Single axis tested in X, Y, 45, and Z directions. Each switch mounts to rail with (4) 1/4-in

screws.

BY: Mohammad Karim

DATE: 12/26/2023

OSP-0793







ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 1 - RACK CONFIGURATION



CG of unit = 44.7 inches from bottom. Total height = 84in.