



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0207 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [] New [X] Renewal

Manufacturer Information

Manufacturer: Ascom Wireless Solutions

Manufacturer's Technical Representative: Daniel DeHanes

Mailing Address: 9024 Town Center Parkway, Suite 100, Bradenton, FL 34202

Telephone: 941-684-5481 Email: daniel.dehanes@ascom-ws.com

Product Information

Product Name: Telligence

Product Type: Nurse Call System

Product Model Number: See I. Certified Product Table attached
(List all unique product identification numbers and/or part numbers)

General Description: The Telligence system patient-staff communications network is a distributed network-centric,
Internet protocol-based architecture system. Approval is limited to rack-mounted devices as identified in Attachment 1.

Mounting Description: Rigid floor and wall mounted

Applicant Information

Applicant Company Name: Ascom Wireless Solutions

Contact Person: Daniel DeHanes

Mailing Address: 9024 Town Center Parkway, Suite 100, Bradenton, FL 34202

Telephone: 941-684-5481 Email: daniel.dehanes@ascom-ws.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in
accordance with the California Administrative Code, 2013.

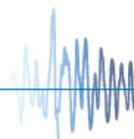
[Handwritten Signature]

Signature of Applicant: Date: 2/13/2015

Regulatory, Product Compliance,

Title: Codes and Standards Company Name: Ascom Wireless Solutions

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: 415-837-0700 Email: scanu@forell.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- 0194-13 (wall-mtd rack – Model No. 13265-X24 only)
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

Testing Laboratory

Company Name: National Technical Systems

Contact Name: John Ngo

Mailing Address: 1701 East Plano Parkway Suite #150, Plano, TX 75074

Telephone: 972-509-2566 Email: John.ngo@nts.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: [X] Yes [] No

Design Basis of Equipment or Components (Fp/Wp) = See limitations within the attachments

Sds (Design spectral response acceleration at short period, g) = See limitations within the attachments

ap (In-structure equipment or component amplification factor) = 2.5

Rp (Equipment or component response modification factor) = 6.0

Omega_0 (System overstrength factor) = 2.5

Ip (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = 6.79 Hz (floor-mounted rack)

Overall dimensions and weight (or range thereof) = See limitations within the attachments

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15 [] Yes [X] No

Design Basis of Equipment or Components (V/W) =

Sds (Design spectral response acceleration at short period, g) =

Sd1 (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Omega_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (Importance factor) = 1.5

Height to Center of Gravity above base :

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2010 [] Yes [X] No

List of Attachments Supporting Special Seismic Certification

[X] Test Report(s) [] Drawings [X] Calculations [] Manufacturer's Catalog

[] Other(s) (Please Specify):

OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2019

Signature: [Handwritten Signature] Date: June 11, 2015

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to : Sds (g) = See Above z/h = 1

Condition of Approval (if applicable): Preapproved support and attachments under OPM-0194-13 is limited to Wall Mounted Rack Model No. 13265-X24 only.

Ascom - Telligence Patient-Staff Communication Systems

Floor-Mounted Racks

Subcomponents	Manufacturer	Part #	Max. Loaded Weight (lbs)	S _{DS} *	F _p /W _p	Testing Status
Seismic Frame Two-Post Rack	Chatsworth Products, Inc. (CPI)	13853-703	836	2.27	1.72	NTS Rpt. PR033240 ENV 1
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.72	NTS Rpt. PR033240 ENV 1
Station Gateway	Ascom	HC-GTWY1		2.00*	1.51	ETL Rpt. SQ12-1117-01, #1
		HC-GTWY1-3K				
Station Gateway	Ascom	NGGTWY2-H		2.27	1.72	NTS Rpt. PR033240 ENV 1
Smart-UPS 1500 VA	APC	SMT1500RM2U		2.27	1.72	NTS Rpt. PR033240 ENV 1
Equipment Tie-Down Bracket	Chatsworth Products, Inc. (CPI)	11349-19		2.27	1.72	NTS Rpt. PR033240 ENV 1
20-Outlet Surge Power Strip	Chatsworth Products, Inc. (CPI)	12851-02		2.27	1.72	NTS Rpt. PR033240 ENV 1

*Note: Use of subcomponents tested to S_{DS} = 2.00 limits entire assembly of rack and wall-mounted components to S_{DS} = 2.00.

Wall-Mounted Racks

Subcomponents	Manufacturer	Part #	Max. Weight (lbs)	S _{DS} *	F _p /W _p	Testing Status
CUBE-iT Plus 24"Wx24"Hx24"D rack	Chatsworth Products, Inc. (CPI)	11840-724	139	2.27	1.72	NTS Rpt. PR033240 ENV 3
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.72	NTS Rpt. PR033240 ENV 3
Station Gateway	Ascom	HC-GTWY1		2.00*	1.51	ETL Rpt. SQ12-1117-01, #2
		HC-GTWY1-3K				
Station Gateway	Ascom	NGGTWY2-H		2.27	1.72	NTS Rpt. PR033240 ENV 3
Smart-UPS 1500 VA	APC	SMT1500RM2U		2.27	1.72	NTS Rpt. PR033240 ENV 3
Equipment Tie-Down Bracket	Chatsworth Products, Inc. (CPI)	11349-19		2.27	1.72	NTS Rpt. PR033240 ENV 3
Horiz. Cable Management Bar	Chatsworth Products, Inc. (CPI)	11837-01		2.27	1.72	NTS Rpt. PR033240 ENV 3
12-RMU Mounting Rails	Chatsworth Products, Inc. (CPI)	12787-524		2.27	1.72	NTS Rpt. PR033240 ENV 3
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc. (CPI)	12848-02		2.27	1.72	NTS Rpt. PR033240 ENV 3
CUBE-iT Plus 24"Wx24"Hx13"D rack	Chatsworth Products, Inc. (CPI)	13265-724	121	2.27	1.72	NTS Rpt. PR033240 ENV 2
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.72	NTS Rpt. PR033240 ENV 2
Smart-UPS SC 450VA	APC	SC450RM1U		2.27	1.72	NTS Rpt. PR033240 ENV 2
Vert. Mounting Bracket, 3-RMU	Chatsworth Products, Inc. (CPI)	13286-01		2.27	1.72	NTS Rpt. PR033240 ENV 2
90 deg. Mounting Bracket, 2-RMU	Chatsworth Products, Inc. (CPI)	13285-01		2.27	1.72	NTS Rpt. PR033240 ENV 2
Equipment Tie-Down Bracket	Chatsworth Products, Inc. (CPI)	11349-19		2.27	1.72	NTS Rpt. PR033240 ENV 2
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc. (CPI)	12848-02		2.27	1.72	NTS Rpt. PR033240 ENV 2

*Note: Use of subcomponents tested to S_{DS} = 2.00 limits entire assembly of rack and floor-mounted components to SDS = 2.00.

Test Report PR033240 Rev. 1 – ENV 1

Ascom Telligence Nurse Call System, floor-mounted rack

Chatsworth Products, Inc. Seismic Frame 13853-703

Two-Post Rack: 24”W x 15”D x 84”H

Weight: 836 lbs, including 711 lbs added weight

See following page for loading configuration

Floor Mounted with (4) – ½” bolts, Grade 8

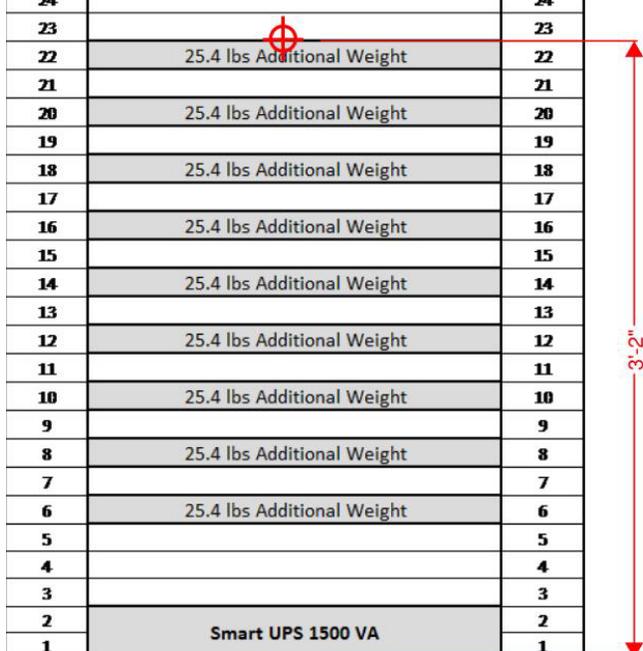


Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.27	1	3.63	2.72	1.51	0.61
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.				
9.5 Hz	6.8 Hz	> 33 Hz					

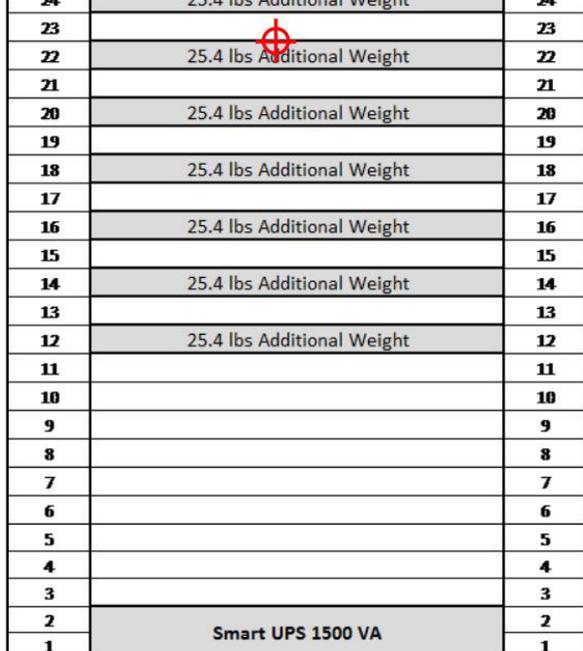
Internal Components	Manufacturer	Part #
Seismic Frame Two-Post Rack	Chatsworth Products, Inc.	13853-703
Power Switch	Ascom	HC-IPSWITCH8
Station Gateway	Ascom	NGGTWY2-H
Smart-UPS 1500 VA	APC	SMT1500RM2U
Equipment Tie-Down Bracket	Chatsworth Products, Inc.	11349-19
20-Outlet Surge Power Strip	Chatsworth Products, Inc.	12851-02

Test Configuration – ENV 1

47		47	47		47
46	Power Switch	46	46		46
45		45	45		45
44	Station Gateway	44	44		44
43		43	43		43
42	25.4 lbs Additional Weight	42	42		42
41		41	41		41
40	25.4 lbs Additional Weight	40	40		40
39		39	39		39
38	25.4 lbs Additional Weight	38	38		38
37		37	37		37
36	25.4 lbs Additional Weight	36	36		36
35		35	35		35
34		34	34		34
33		33	33		33
32		32	32		32
31		31	31		31
30		30	30		30
29		29	29		29
28		28	28		28
27		27	27		27
26		26	26		26
25		25	25		25
24		24	24		24
23		23	23		23
22	25.4 lbs Additional Weight	22	22		22
21		21	21		21
20	25.4 lbs Additional Weight	20	20		20
19		19	19		19
18	25.4 lbs Additional Weight	18	18		18
17		17	17		17
16	25.4 lbs Additional Weight	16	16		16
15		15	15		15
14	25.4 lbs Additional Weight	14	14		14
13		13	13		13
12	25.4 lbs Additional Weight	12	12		12
11		11	11		11
10	25.4 lbs Additional Weight	10	10		10
9		9	9		9
8	25.4 lbs Additional Weight	8	8		8
7		7	7		7
6	25.4 lbs Additional Weight	6	6		6
5		5	5		5
4		4	4		4
3		3	3		3
2	Smart UPS 1500 VA	2	2		2
1		1	1		1



Front View

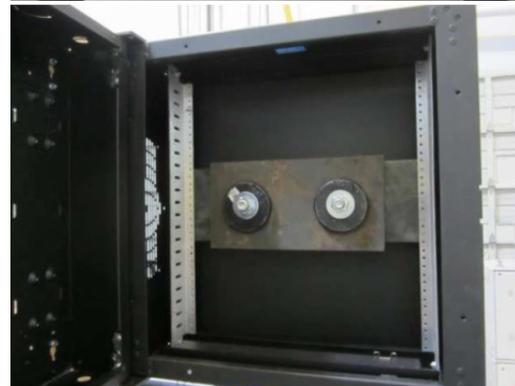


Back View

Center of gravity is approximately located at 38" from the base.
 Certified Components are to be positioned as shown.

Test Report PR033240 Rev. 1 – ENV 2

Ascom Telligence Nurse Call System, wall-mounted rack
Chatsworth Products, Inc. Cube-iT 13265-724
Wall-mtd. cabinet: 24”W x 13”D x 24”H
Weight: 121 lbs, including 60 lbs added weight
Wall Mounted with (6) – ¼”, 2.5”-long lag bolts



Note: components are at top and bottom of the rack.
Weights are mounted mid-height.
 $Z_{CG} = 12''$

Building Code	Test Criteria	S _{Ds} (g)	z/h	Horizontal		Vertical	
				AFLX-H	ARIG-H	AFLX-V	ARIG-V
CBC 2013	ICC-ES AC 156	2.27	1	3.63	2.72	1.51	0.61
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.				
n/a	n/a	n/a					

Internal Components	Manufacturer	Part #
CUBE-iT Plus 24"Wx24"Hx13"D rack	Chatsworth Products, Inc.	13265-724
Power Switch	Ascom	HC-IPSWITCH8
Smart-UPS SC 450VA	APC	SC450RM1U
Vert. Mounting Bracket, 3-RMU	Chatsworth Products, Inc.	13286-01
90 deg. Mounting Bracket, 2-RMU	Chatsworth Products, Inc.	13285-01
Equipment Tie-Down Bracket	Chatsworth Products, Inc.	11349-19
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc.	12848-02

Test Report PR033240 Rev. 1 – ENV 3

Ascom Telligence Nurse Call System, wall-mounted rack
Chatsworth Products, Inc. Cube-iT 11840-724
Wall-mtd. cabinet: 24”W x 24”D x 24”H
Weight: 139 lbs, including 60 lbs added weight
Wall Mounted with (6) – ¼”, 2.5”-long lag bolts



Note: components are at bottom of the rack.
Weights are mounted mid-height.
Z_{CG} = 11.5”

Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.27	1	3.63	2.72	1.51	0.61
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.				
n/a	n/a	n/a					

Internal Components	Manufacturer	Part #
CUBE-iT Plus 24"Wx24"Hx24"D rack	Chatsworth Products, Inc.	11840-724
Power Switch	Ascom	HC-IPSWITCH8
Station Gateway	Ascom	NGGTWY2-H
Smart-UPS 1500 VA	APC	SMT1500RM2U
Horiz. Cable Management Bar	Chatsworth Products, Inc.	11837-01
12-RMU Mounting Rails	Chatsworth Products, Inc.	12787-524
Equipment Tie-Down Bracket	Chatsworth Products, Inc.	11349-19
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc.	12848-02