

Hampton Inn, Puyallup

Emergency Responder Radio Coverage Distributed Antenna System

1515 S. Meridian Street Puyallup, WA 98371

Plan Notes:

Pathway Identification:

Communication and signal circuits will be identified by a distinctive color on covers or doors. "Emergency Communications-Signal Circuit" will be clearly marked on all terminal and junction boxes.

Rooftop Antenna Mast:

Affix a 2" rigid conduit mast, with grounding and weather-head, extending a minimum 4' above the highest point on the roof for a 360° azimuth rotation.

Headend Requirements:

1. 20A 120VAC power hardwired to BBU 2. Dedicated breaker with lockout at panel 3. 6 N/O dry contact fire alarm connections 4. Fire rated plywood board 5. Grounding busbar for 6 AWG grounding conductors

Headend Alarm Requirement:

1. Loss of Normal AC Power supply 2. Low-battery capacity at 70 percent reduction of operating capacity 3. System battery charger failure 4. Failure of active RF device 5. Malfunction of the donor antenna 6. Active system component malfunction

Designed By:



Lance Stafford iBwave Designer FCC General Radio Operator's License: PG00048282

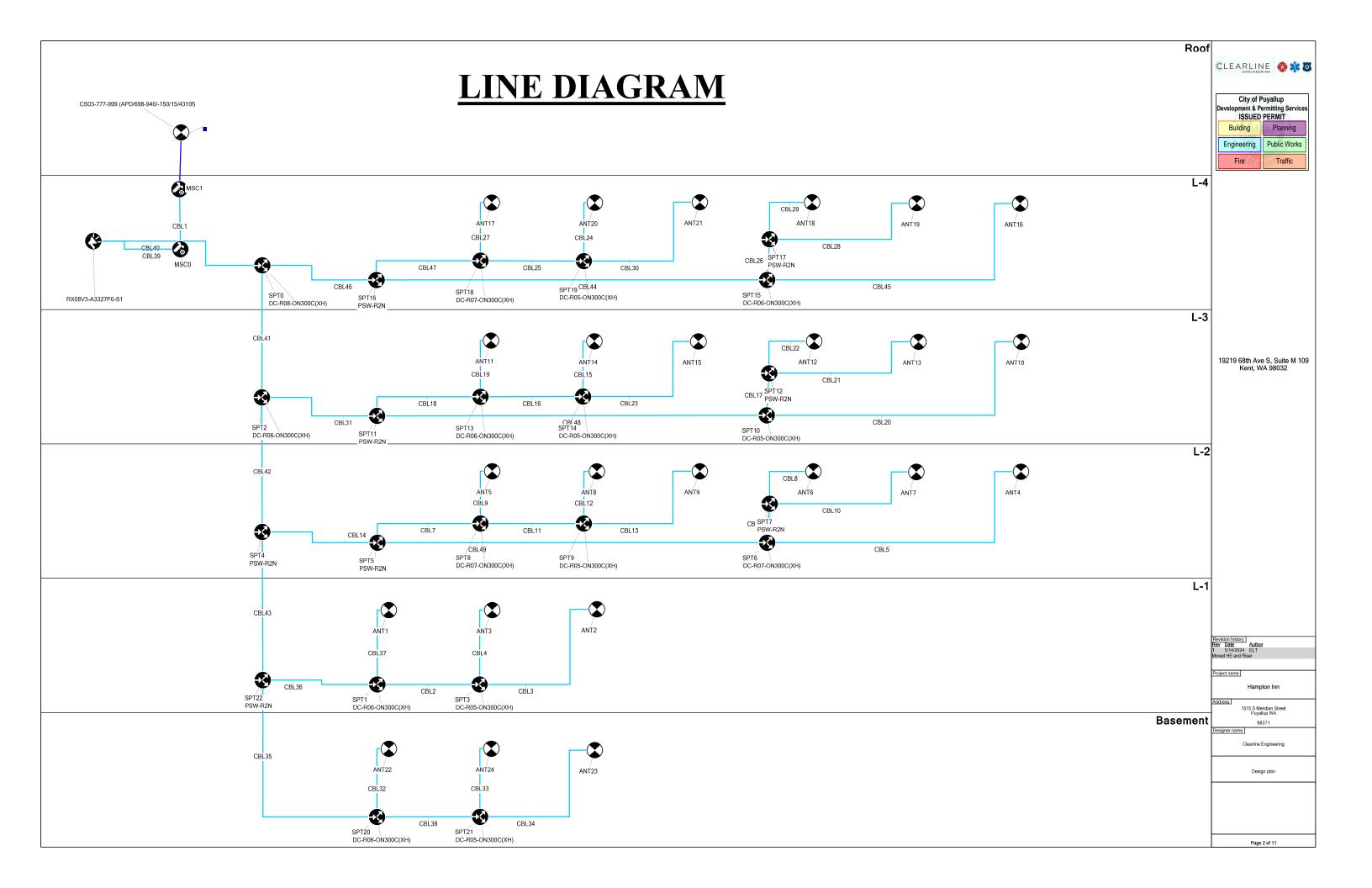
Phone: 509-714-6711 Email: lstafford@clearline-engineering.com

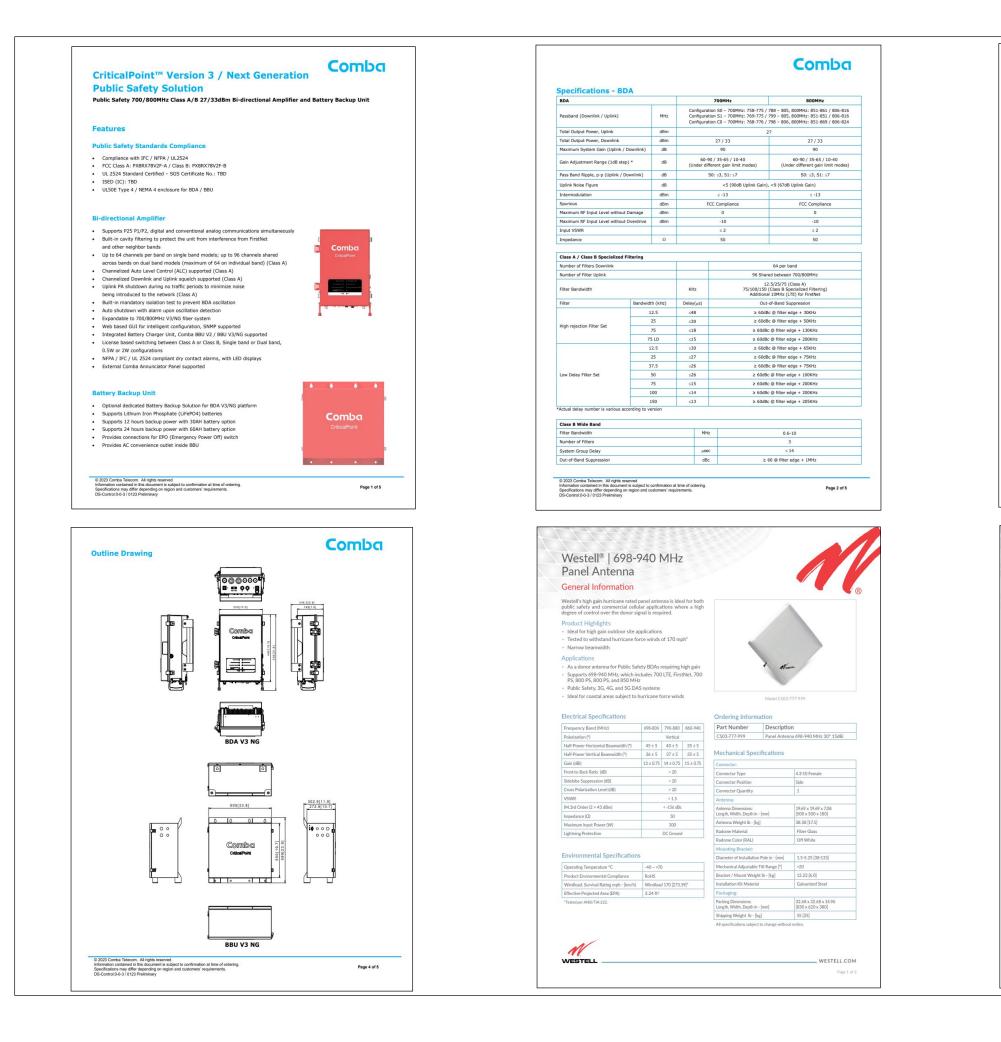
Building and applicable codes based on IBC 2018 but deferred to local AHJ.











Mechanical - BDA BDA			
Dimensions, H x W x D			mm
Weight (without bracket)			kg /
Power Supply Input			VA
Power Supply Output			VE
Maximum Charging Current	-		1
Power Consumption		ngle Band ual Band	v
Enclosure Cooling			
RF Connectors * 2			
Test Port * 2			
LED * 10 Communication port *2			_
Reserved knock outs			-
Operating Temperature			9
Operating Humidity			
Environmental Class			
MTBF			н
BBU Dimensions, H x W x D Weight (without battery) LiFePO4 Output			mm Kg V
LiFePO4 Battery Communicatio Knockouts	n Port		-
Operating Temperature			٩F (
Operating Humidity			
Enclosure Environmental Class			
Battery		-	
Battery Type System Required Quantity	pcs	1	5
Amp/Hour (Discharge at XC)	pcs	304	· · · · · ·
Nominal Voltage		51.	
Battery Weight	lb(kg)	52.9	(24)
Battery Electrolyte Counts		0.456 Gallor	ns / 4.6 lb
© 2023 Comba Telecom. All rights Information contained in this docum Specifications may differ depending DS-Control:0-0-3 / 0123 Preliminary	reserved ent is sub on region	ect to confirmation at tin and customers' require	me of order iments.
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Omnidirectio Model Numbers • Ant-Ol-698-2.7k/N(f) Econ (CS03-019-429) • Ant-Ol-698-2.7k/4.3-10 Eco (CS03-019-429-02)	ona	l Antenn	а
Omnidirection Model Numbers - Ant-0x985-27k/NIT Econ (cS03-019-429) - Ant-0x985-27k/A3-10 Eco (cS03-019-429-02) Frequency Range - 698-960/1710-2700 Features & Benefits	ona	Antenn	а
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Omnidirection Model Numbers - Ant-0x898.2.7k/NN Econo (CS33-019-429) - Ant-0x898.2.7k/A.310 Econo (CS33-019-429-02) Frequency Range - 698-9601710-2700 Features & Benefits - Low Cost - Multiband Design	ona		a
Omnidirection Model Numbers - Ant-Ox698.2.7/k.1/NJ Econ (500-019-429) - Ant-Ox698.2.7/k.1/NJ Econ (500-019-429-02) - Ant-Ox698.2.7/k.1/NJ Econ (500-019-429-02) Frequency Range - 698-960/1710-2700 Features & Benefits - Low Cost	ona		a

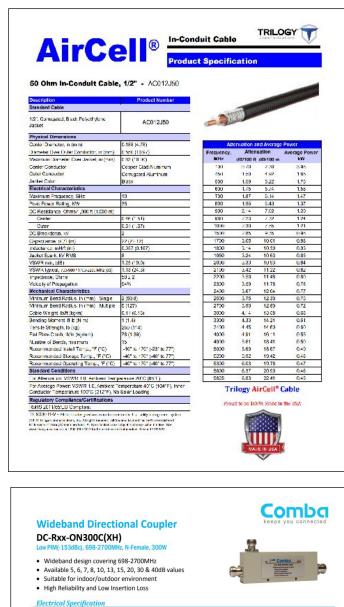
Electrical	Specifications	

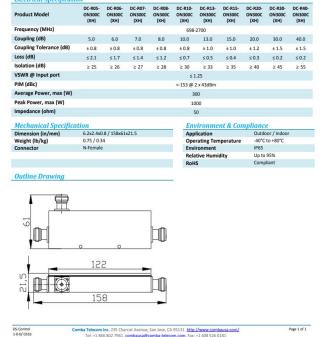
Electrical Specifications			
Frequency Range	698-960/1710-2700		
Polarization	Vertical		
Gain (dBi)	1±0.5/5±1.0		
Half-power Beam Width	Hor: 360/Ver: 60/30		
Impedance (Q)	50		
VSWR	s2.0/s1.5		
Maximum Input Power (W)	50		

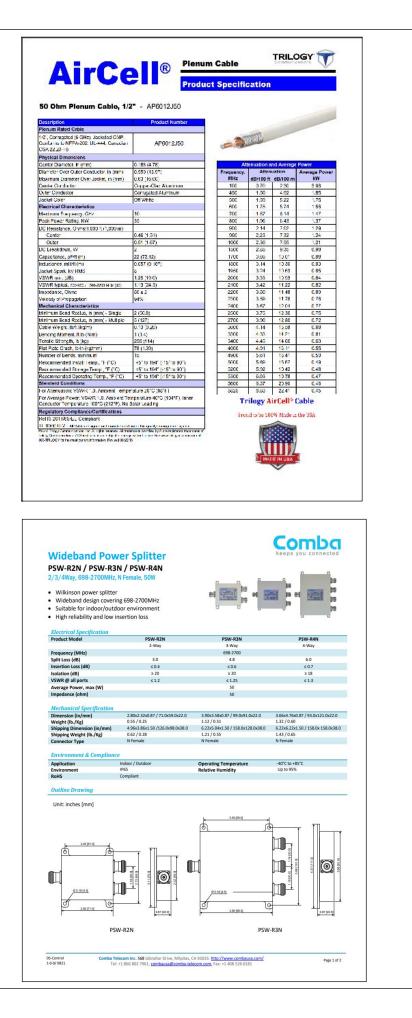
Specifications subject to change without notice.

WESTELL

		Complete	
		Comba	CLEARLINE 🚳 🗱 🗿
/ in	330 x 490 x 199 /	13.0 x 19.3 x 7.8	City of Puyallup
bs C	25 / 100-240V / 50-		Development & Permitting Services ISSUED PERMIT
C	40-60V (Typical:	53.5V) / 0-7.5A	Building Planning
	27 dBm	33 dBm	Engineering Dublic Works
	<75 <85	<90 <100	Engineering Public Works
	Conve N-Female (MT, DT), SMA-I		Fire Traffic
	SMA-Female (DT	r-Test, MT-Test)	
-	Dry Contact Alarm L RJ45 (LA		
	3/4-inch hole x 1, 1/2-incl -40 to		
	≤ 9!	5%	
	UL50E Type 100,		
in bs	605 x 500 x 272.9 / 26 /		
:	Per Ba	attery	
	Serial port 3/4-inch hole x 4,	1/2-inch hole x 6	
C)	32 to 104 < 99		
	ULSOE Type		
(Lithium Iron Phosphate) LiFePO4	1	
	60AH	100AH	
	51.2V 79.8 (36.2)	51.2V 123.5 (56)	10010 694 Aur 0, 004 M 100
	0.913 Gallons / 9.1 lbs	1.758 Gallons / 17.6 lbs	19219 68th Ave S, Suite M 109 Kent, WA 98032
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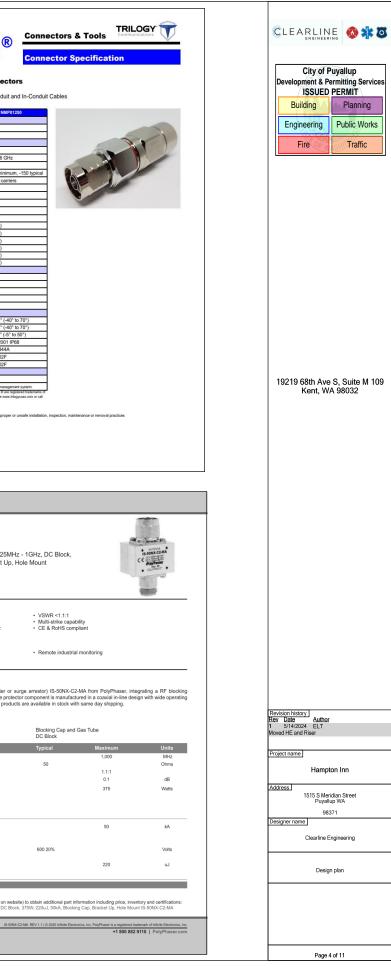




Description General Specifications	NMP
Interface	N Male
Body Style	Straight
Electrical Specifications	
Impedance, Ohms Operating Frequency Band	50 0.3 MHz to 6 GH
Dielectric Withstand Voltage	2 kV DC
3rd Order IMD	-140 dBc minim
3rd Order IMD, Test Method	2 x 20 Watt carrie
Average Power	0.6 kW
Peak Power, maximum Insertion Loss, typical	10 kW 0.05
Shielding Effectiveness	-130 dB
Return Loss (VSWR)	-100 00
DC to 1 GHz	30 dB (1.06)
1 GHz to 2 GHz	31 dB (1.06)
2 GHz to 3 GHz	32 dB (1.06)
3 GHz to 4 GHz 4 GHz to 5 GHz	25 dB (1.12) 20 dB (1.22)
4 GHz to 5 GHz 5 GHz to 6 GHz	20 dB (1.22) 15 dB (1.43)
Mechanical Specifications	10 00 (1.40)
Outer Contact Plating	Silver
Inner Contact Plating	Silver
Interface Durability	500 cycles IEC 16916
Interface Durability Test Method Minimum Connector Pull-off Force	200 lbs
Environmental Specifications	100 100
Operating Temperature, °F (°C)	-40° to 158° (-40
Storage Temperature, °F (°C)	-40° to 158° (-40
Installation Temperature, °F (°C)	23° to 122° (-5°
Immersion Test Method Corrosion Test Method	IEC60529:2001 MIL-STD-1344A
Thermal Shock Test Method	MIL-STD-202F
Vibration Test Method	MIL-STD-202F
Regulatory Compliance/Certification	ns
RoHS 2011/65/EU Compliant	
TL 9000 H-V - All Cables designed and many 22016 Trilogy Communications, Inc. All rights reserve	factured under this quality managed
Trikgy Communitation. Al Specification are subject CRUGOT for the mount information. Rev Rodice: Trilogy disclaims any liability or respon	sibility for the results of imprope
RolyPhase	ч Т
Type N M/F Coaxial RF Su 375W, 220uJ, 50kA, Blocki	

Frequency range from 125 N Male to N Female conner	
Applications HF, UHF and VHF radios Ham radios 	
Description RF surge protector (also known capacitor with a gas tube (GT or G frequency range. All PolyPhaser I	GDT). This RF surge protector
Electrical Specifications	
Surge Protector Type DC Handling	
Description	Minimum
Frequency Range	125
Impedance	
VSWR Insertion Loss	
Input Power, CW	
375W @ 125MHz TO 220MHz 125W @ 220MHz TO 700MHz	
50W @ 700MHz TO 1000MHz	
Surge Current	
IEC 61000-4-5 8/20µs WAVEF0	ORM
Turn On Voltage	
Throughput Energy	
@ 3kA, 8/20µs WAVEFORM	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, im Type N M/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50KA, Blocking Cap, Bracket Up, Hole Me



Puyallup Donor Site 2 Edgewood **Azimuth Calculation** Fred Meyer Catapult Adventure Park Puyallup Pioneer Park Hampton Inn - Puyallup 1515 S Meridian

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19219 68th Ave 5 Kent, WA	S, Suite M 109 98032
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