



*Providing Public Safety  
Solutions for Over 20 Years*

# In-Building Public Safety Wireless Communication Solutions

Revised: November 15, 2024



## Providing critical in-building communications for First Responders and Emergency Services when it matters most.

For over 20 years Westell has been a trusted partner for reliable in-building wireless solutions for public safety. Our public safety product portfolio includes Class A/B BDAs offering VHF, UHF, 700 and 800 MHz filters, donor and coverage antennas, and a full line of high performance passive components to support VHF, UHF, 700, 800 and 900 MHz bands.

In-building public safety communication requirements are among the newest and most critical compliance elements in fire and building codes. Our public safety products are code compliant and deliver unmatched, simplified flexibility for a low total cost of ownership, making Westell one of the most trusted brands and a preferred vendor for many AHJs, RF consultants, distributors, and system integrators.

### Westell ERCES products provide:

- Simplified installation and easy-to-order kits without complicated software upgrades
- A full line of public safety products in stock, most shipping within 3 days
- US-based, skilled technical support, customer service, and sales personnel resources

**Trust the experts at Westell on your next ERCES project!**



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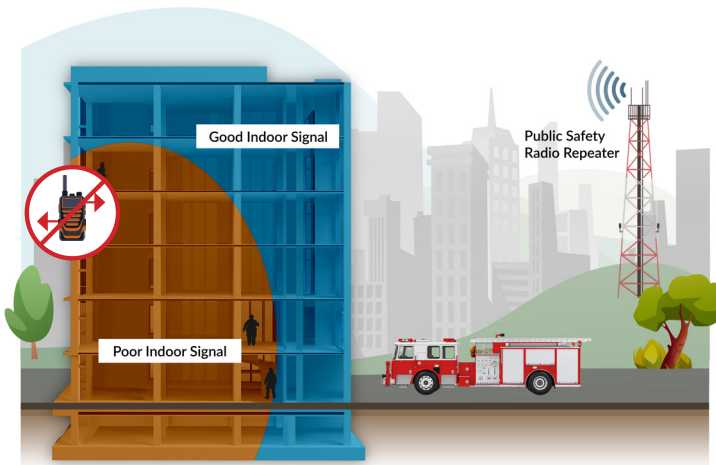
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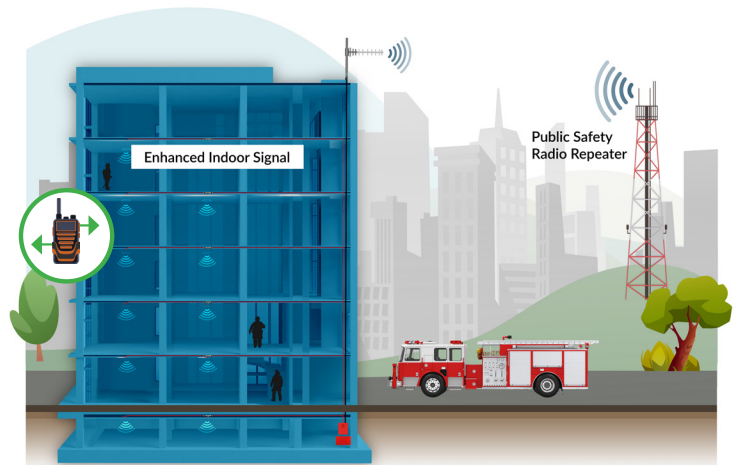
# Westell® Public Safety Portfolio

Westell offers a wide range of the most complete solution sets for public safety in-building coverage with a focus on solutions that are easier to install, easier to obtain AHJ acceptance, and reduce total cost of ownership. Our innovative technology helps to assure that our BDAs don't cause interference to the public safety radio networks.

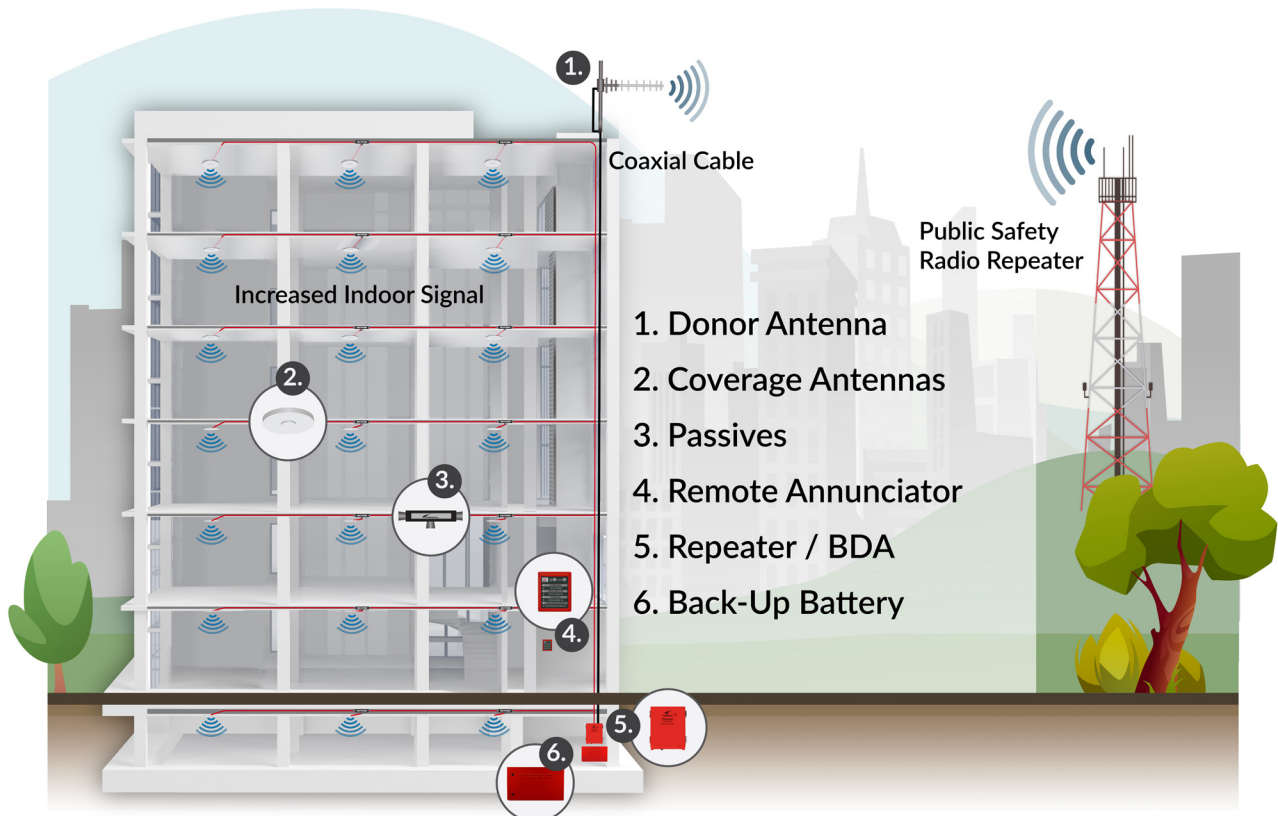
## In-Building Wireless Communication Issue:



## In-Building Wireless Communication Solution:



## Solutions Include:



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# NEW! ProtectLink™ CS45 Series Next Generation ½W Class A/B BDA

The Westell ProtectLink Public Safety Next Generation ½W BDA has one of the smallest form factors available on the market. The Class A or Class B BDA includes 700/800 MHz dual-band support, ½W output power, and additional auxillary alarms. Westell's ProtectLink public safety BDAs are an integral part of any NFPA compliant ERCES (Emergency Responder Communication Enhancement System).

ProtectLink includes a full-featured, easy to use web GUI. The product also includes adjustable bandwidth filters, intelligent oscillation management, built-in isolation test, NFPA/UL2524 alarm capabilities, built-in annunciator with an optional remote annunciator panel, P25 phase 2 per timeslot AGC, and fast squelch. The BDA supports 64 total enabled channels allocated across bands in blocks of 8. Individual filter bandwidths of 12.5 kHz or 75 kHz are available for class A operation. Class B filters support 150 kHz or up to full bandwidth.

Part Number	Description
CS45-727-827-A0	700/800 MHz, ½W, Class A/B BDA
CS40-ANNUNC	BDA remote annunciator for monitoring a single device



CS45-727-827-A0

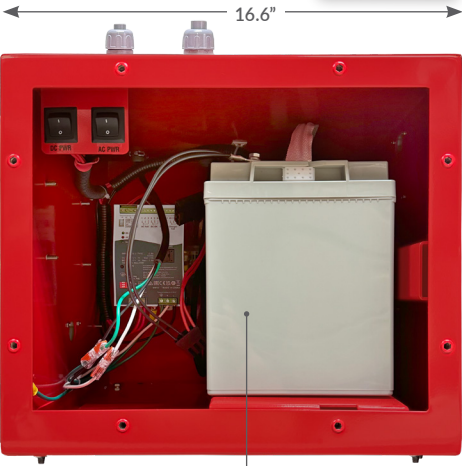


CS40-ANNUNC

# NEW! Next Generation Battery Backup Unit

Designed to provide main power and uninterruptible backup power for CS45 and other 12VDC public safety bi-directional amplifier (BDA) systems with integrated power, battery charger and alarm monitor system. Full NFPA 72/1221/1225/UL2524 indicator support with Westell 12 VDC BDAs. Lead-acid batteries are ordered separately and will determine the length of battery backup time.

Part Number	Description
CS19-BBU-004	NEMA4 rated next generation charger and battery backup unit, supporting CS45 BDA models. Class A/B batteries ordered separately
CS19-BAT55AHSLA***	55AH, 12V, SLA battery for CS19-BBU-004 series, 1 required for 12-hour battery backup
CS19-BAT100AH31***	100AH, 12V battery for CS19-BBU-004 series, 1 required for 24-hour battery backup



CS19-BBU-004

CS19-BAT55AHSLA or  
CS19-BAT100AH31

# NEW! ProtectLink™ CS45 Series Next Generation ½W Class A/B BDA Kits

Our BDA kits come with the BDA, a BBU-004 battery backup unit, and a battery for 12 or 24-hour backup run times. Be sure to order the remote annunciator (CS40-ANNUNC) separately if needed.

Part Number	Description
CS45-727-827-K1 12-Hour Kit	Dual-band-700/800 MHz, ½W, Class A/B BDA, CS19-BBU-004 backup battery unit with (1) CS19-BAT55AHSLA*** backup battery
CS45-727-827-K2 24-Hour Kit	Dual-band-700/800 MHz, ½W, Class A/B BDA, CS19-BBU-004 backup battery unit with (1) CS19-BAT100AH31*** backup battery



CS45-727-827-A0

CS19-BBU-004

CS19-BAT100AH31

CS19-BAT55AHSLA

\*\*\*Models CS19-BAT55AHSLA and CS19-BAT100AH31 are covered under their respective manufacturer's warranty.



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# ProtectLink™ Class A/B BDAs

Westell ProtectLink Public Safety BDAs represent the next revolution in public safety DAS design, offering the most flexible platform available on the market. The UL2524 Listed platform includes 700/800 MHz band support, ½ Watt, 1 Watt, and 2.5 Watt RF output options, Class A or Class B operation, single-band or dual-band operation. Westell's ProtectLink public safety BDAs feature one of the smallest form factors of any BDA on the market.

ProtectLink includes a full-featured, easy-to-use web GUI. The product also includes the following features: channelized squelch, intelligent oscillation management, dedicated FirstNet® filter profile, built-in isolation test, NFPA / UL2524 alarm capabilities, built-in communication link for an optional remote annunciator panel, built-in battery backup circuitry, P25 Phase 2 per timeslot AGC, and fast squelch.. Class A settings include 32 filters per band with individual filter bandwidths from 12.5KHz to full band. Class B settings include four individual filters starting at 250KHz bandwidth to full band.

Part Number	Description
CS40-734834-2524**	Dual-band-700/800 MHz, ½, 1, 2.5 Watt, Class A/B BDA
CS40-734834-CAN	Dual-band-700/800 MHz, ½, 1, 2.5 Watt, Class A/B BDA, Canada, ISED RSS-131
CS40-ANNUNC	BDA remote annunciator for monitoring a single device
CS40-734834-00D-A0	Dual-band 700/800 MHz, 2.5 Watt, fiber DAS ready Class A/B BDA

## ProtectLink™ BDA Kits

Our BDA kits come conveniently packaged on a single pallet with the BDA, a battery cabinet, plus two batteries for 12-hour or 24-hour backup run times. Be sure to order the remote annunciator (CS40-ANNUNC) separately if needed.

Part Number	Description
CS40-734834-2524K1** 12-Hour Kit	Dual-band-700/800 MHz, ½, 1, 2.5 Watt, Class A/B, CS19-BBC-003 backup battery cabinet, and (2) CS19-PYL12V100FT*** backup batteries
CS40-734834-2524K2** 24-Hour Kit	Dual-band-700/800 MHz, 2.5 Watt, Class A/B, CS19-BBC-003 backup battery cabinet, and (2) CS19-PYL12V160FT*** backup batteries

\*\*For Fiber DAS ready BDA, please order CS40-734834-00D-A0.

## Battery Backup

NFPA 1221, Compliant Battery Backup Solutions for Public Safety BDAs	
Part Number	Description
CS19-BBC-003	UL2524 approved, NEMA3R rated battery cabinet, universal BBC for Westell BDAs, supporting both CS40 Class A/B and CS14 eBDA Class B models, batteries ordered separately
CS19-PYL12V45FS***	12VDC, 45 AH battery must order 2 for BBC-003, 4-hour backup
CS19-PYL12V100FT***	12VDC, 100 AH battery must order 2 for BBC-003, 12-hour backup
CS19-PYL12V160FT***	12VDC, 160 AH battery must order 2 for BBC-003, 24-hour backup



CS40-ANNUNC



CS40-734834-2524

CS19-BBC-003



\*\*\*Models CS19-PYL12V45FS, CS19-PYL12V100FT, and CS19-PYL12V160FT are covered under their respective manufacturer's warranty.



# ProtectLink™ Class A/B Fiber DAS

Westell's innovative DAS-ready BDA allows for the addition of fiber remotes for expanded coverage. Fiber DAS Ready BDA's support the addition of an Optical Master Unit (OMU) mounted below or next to the master BDA. The DAS-ready BDA includes all necessary connections to interface with the OMU while keeping a service RF port to provide the signal to the area around the master BDA. Each OMU accommodates up to 8 Optical Radio Amps, each connected to a Fiber Optical Remote Unit over a single strand of single-mode fiber. This feature allows integrators to purchase only the number of Optical Radio Amps needed to support the number of remotes installed, reducing installation costs. Up to two OMUs can be added to each system, supporting a total of 16 remotes per Master BDA.

The master BDA and each remote optical unit will support Ethernet connections to access all devices in the entire network. The DAS remote annunciator provides status on all devices in the network from a single point for immediate identification of faults.

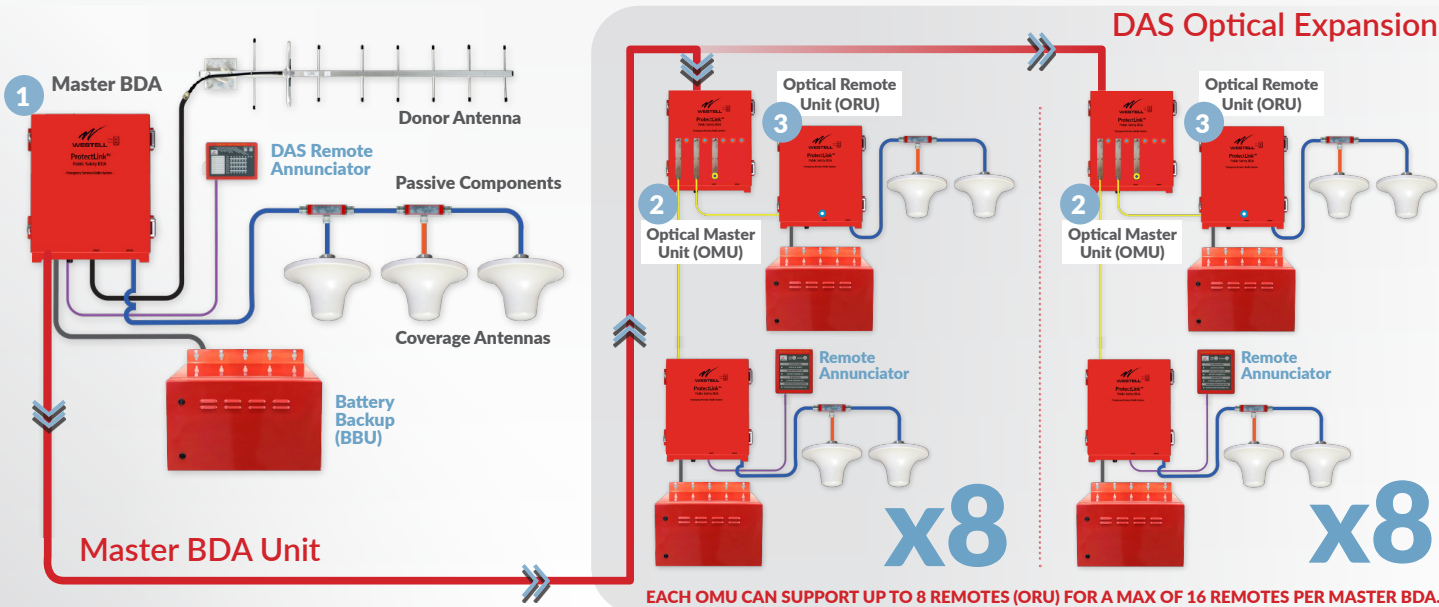
## How It Works:

Master BDA feeds local antennas and provides RF source for the OMU.

### 3 Main Active Components



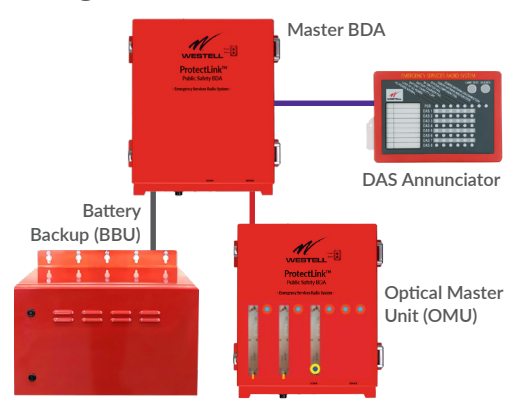
### DAS Accessories



Part Number	Description
Main BDA	
CS40-734834-00D-A0	Dual-band 700/800 MHz, 2.5 Watt, fiber DAS ready Class A/B BDA
Optical Main Units (OMU)	
CS40-OPTMASTER	Optical master chassis, supports up to 8 radio modules
CS40-OPTRADIOMOD	Optical radio module, converts RF to fiber, one per remote
Optical Remote Unit (ORU)	
CS40-734834-00D-AR	Dual-band 700/800 MHz, 2.5 Watt, Class A/B remote amp
CS40-734834-00D-BR	Dual-band 700/800 MHz, 2.5 Watt, Class B remote amp



## Intelligent Architecture:



## ProtectLink™ High and Mid Power UHF BDAs

The ProtectLink UHF Class A/B BDA is offered in 4-port simplex, duplex and duplex dual window models with 2.5W or 5W and 85dB of gain. Class A operation includes 16 filters per band with individual filter bandwidths from 12.5 KHz to 75 KHz, and wideband operation of up to 62 MHz UHF. All versions include a full-featured, easy to use web GUI, factory configurable filters, intelligent oscillation management, built-in isolation test, NFPA / UL2524 alarm capabilities, built-in battery backup circuitry, and a built-in communication link for an optional remote annunciator panel.

Part Number	Description
<b>High Power UHF BDAs</b>	
CS40-U37-U0D-A0	UHF 450-512 MHz, 5 Watt, 4 port simplex, 62 MHz, Class A/B
CS40-U37-U2D-A0	UHF 450-512 MHz, 5 Watt, 3.5 MHz PB/1.5 MHz GB duplex, Class A/B
CS40-U37-U4D-A0	UHF 450-512 MHz, 5 Watt, 3.5 MHz PB/1.5 MHz GB dual window duplex, Class A/B
<b>NEW! Mid Power UHF BDAs</b>	
CS40-U34-U0D-A0	UHF 450-512 MHz, 2.5 Watt, 4 Port Simplex, 62 MHz, Class A/B
CS40-U34-U2D-A0	UHF 450-512 MHz, 2.5 Watt, 3.5 MHz PB/1.5 MHz GB Duplex, Class A/B
CS40-U34-U4D-A0	UHF 450-512 MHz, 2.5 Watt, 3.5 MHz PB/1.5 MHz GB Dual Window Duplex, Class A/B



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View of filter installed.

## ProtectLink™ High and Mid Power VHF BDAs

The ProtectLink VHF Class A/B BDA is offered in 4-port simplex, and duplex with high or low band operation models with ½W or 1W and 85dB of gain. Class A operation includes 16 filters per band with individual filter bandwidths from 12.5 KHz to 75 KHz, and wideband operation of up to 24 MHz VHF. All versions include a full-featured, easy to use web GUI, factory configurable filters, intelligent oscillation management, built-in isolation test, NFPA / UL2524 alarm capabilities, built-in battery charger circuitry, and a built-in communication link for an optional remote annunciator panel.

Part Number	Description
<b>High Power VHF BDAs</b>	
CS40-V30-V1D-A0	VHF 150-174 MHz, 1 Watt, 4 Port Simplex, 24 MHz, Class A/B
CS40-V30-V2D-A0	VHF 150-162 MHz, 1 Watt, 3.5 MHz PB/1.5 MHz GB, Duplex, Class A/B, Low Band
CS40-V30-V3D-A0	VHF 162-174 MHz, 1 Watt, 3.5 MHz PB/1.5 MHz GB Duplex, Class A/B, High Band
<b>NEW! Mid Power VHF BDAs</b>	
CS40-V27-V1D-A0	VHF 150-174 MHz, ½ Watt, 4 Port Simplex, 24 MHz, Class A/B
CS40-V27-V2D-A0	VHF 150-174 MHz, ½ Watt, 3.5 MHz PB/1.5 MHz GB, Duplex, Class A/B, Low Band



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UL2524

## Optional UHF/VHF BDA Components

Part Number	Description
CS40-ANNUNC	BDA remote annunciator for monitoring a single device
CS19-BBC-003	Wall-mountable battery cabinet
CS19-PYL12V100FT***	100AH sealed lead-acid battery (2 required for 12-hour backup)
CS19-PYL12V160FT***	160AH sealed lead-acid battery (2 required for 24-hour backup)

\*\*\*Models CS19-PYL12V45FS, CS19-PYL12V100FT, and CS19-PYL12V160FT are covered under their respective manufacturer's warranty.

[Download UHF / VHF Frequency Form](#)

CS19-BBC-003



CS40-ANNUNC



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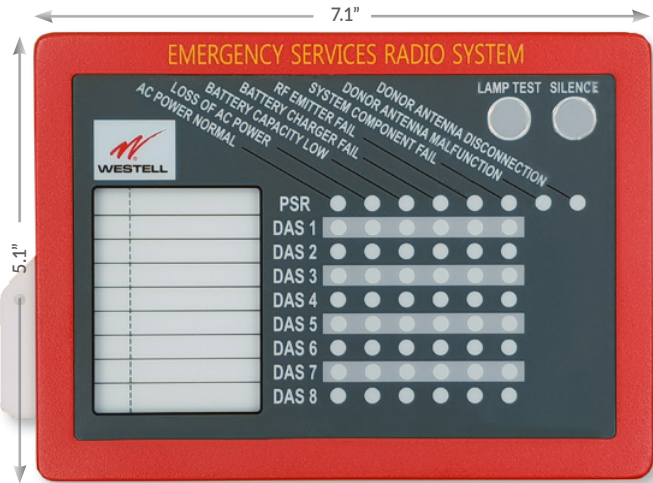
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# Remote Alarm Annunciators

Alarm annunciation of each active element in the system can be monitored through a remote annunciator. With both optical and audible annunciation of alarms, first responders will have a clear indication of the DAS system performance as they enter the building. Select the single unit annunciator to monitor a single Optical Radio Amp or the DAS annunciator to monitor all DAS devices from a single location.

Part Number	Description
CS40-ANNUNC	BDA remote annunciator for monitoring a single BDA or remote fiber unit
CS40-DASANNUNC	DAS remote annunciator for monitoring all DAS units



CS40-DASANNUNC

Interconnect CS40-DASANNUNC with a single standard CAT5 cable up to 3000 feet away.

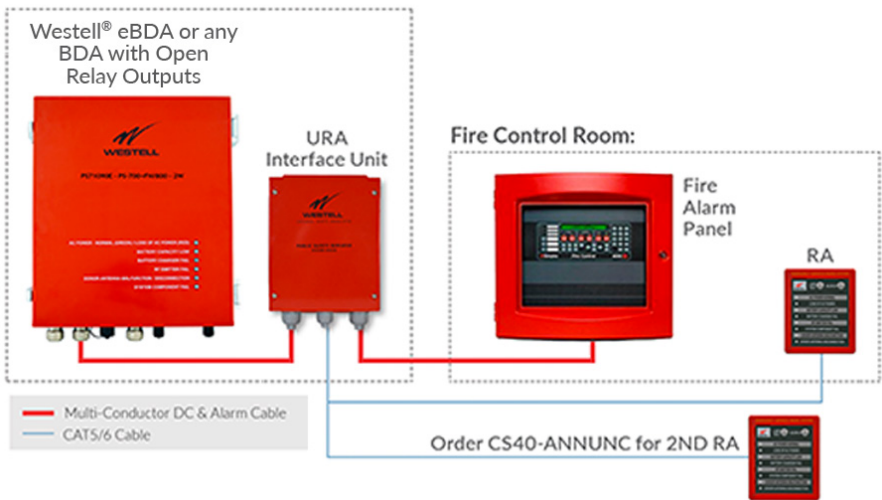
This compact and clean solution mounts to the front of a typical 2 or 3 gang electrical box for monitoring the health of each active DAS element.



## Universal Remote Annunciator

Westell's Universal Remote Annunciator (URA) is a compact, easy to install remote annunciator for ERCES/ERRCS installations that will operate with any manufacturer's BDA/BBU system. The URA consists of a small NEMA4 interface unit (IU) that mounts next to the BDA plus a compact remote annunciator (RA) that can be mounted up to 3000 feet away, connected with a single CAT5/6 cable. Connections to the fire alarm panel pass through the IU to allow easy connection between the BDA and the fire alarm control panel (FACP). The IU can support up to 2 remote annunciators.

Universal Remote Annunciator Diagram



Part Number	Description
NFPA Public Safety Remote Annunciator	
CS19-URA-003	Universal remote annunciator includes interface unit and one remote annunciator panel
CS40-ANNUNC	Second remote annunciator for dual RA installations



CS19-URA-003



CS40-ANNUNC

Westell's Class B public safety BDAs are loaded with features that AHJs prefer, designed to make installation simpler, and take up less wall space. These Class B BDAs support 700 MHz, 700 FirstNet® (Band 14), and 800 MHz, and are listed to UL2524 and NEMA-4 compliant. They feature a full complement of features, including adjustable frequency passbands, automatic isolation test, independent gain control, front panel annunciator, built-in BBU circuitry, uplink squelch, intelligent oscillation management, options for a cleaner installer-friendly installation, and more.



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**2**  
YEAR  
**WARRANTY**

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CLASS B BDA Models  
CS14-720-820 or  
CS14-722-822

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**CS19-BBC-003**

**Battery Models**  
CS19-PYL12V45FS,  
CS19-PYL12V100FT,  
or CS19-PYL12V160FT

\*\*Westell's enhanced line of BDAs include a 2-year warranty. An extended warranty of up to 5 years is available.



Two grey Exide batteries are shown next to a large red fireproof safe. The safe is labeled "CS19-BBC-003" in the top right corner. The safe has a heavy-duty door with a handle and a lock. The batteries are labeled "Exide" and "12V 100Ah".

\*\*\*Models CS19-PYL12V45FS, CS19-PYL12V100FT, and CS19-PYL12V160FT are covered under their respective manufacturer's warranty.



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# Donor Antennas

Donor antenna selection is an important part of an off-air BDA system. We offer a variety of donor antennas covering VHF through 960 MHz. All are constructed to the highest standards for durability and performance.

Part Number	Description
CS03-003-430	Yagi, 11 dBi gain, public safety 700/800 (746-896) MHz, N(F), Anodized aluminum design
CS03-003-089	CSI-AY/806-960/11Yagi, 11 dBi gain, 800/900 (806-960) MHz, N(F), anodized aluminum design
CS03-003-090	CSI-AY/806-960/14 Yagi, 14 dBi gain, 800/900 (806-960) MHz, N(F), anodized aluminum design
CS03-024-836	Yagi, 7 dBi, VHF band, (136-174) MHz, N(F) connector, anodized aluminum design
CS03-025-840	Yagi, 11 dBi, UHF band, (406-512) MHz, N(F) connector, anodized aluminum design
CS03-777-999	Panel donor antenna, 15 dBi gain, low-band, (698-940) MHz, 4.3-10(F), high isolation wind load: 185 MPH



# Coverage Antennas

Coverage antennas include omnidirectional and directional panel antennas supporting frequencies from 600-4000 MHz.

Part Number	Description
CS03-021-833/N	Slim round omnidirectional: supports 50 Watt input power, 3 dBi gain, wide beamwidth, N(F), -153 dBc PIM, (600-4000) MHz
CS03-011-429	Omnidirectional: 4 dBi, supports 50 Watt input power, 2 dBi gain, wide beamwidth, N(F), flexible mounting options, -153 dBc PIM, (698-960) MHz and (1710-2700) MHz
CS03-012-389	Directional panel: supports 50 Watt input power, 7 dBi, N(F), flexible mounting options, -153 dBc PIM, 4 dBi (698-960) MHz and (1710-2700) MHz
CS03-019-429	Economy omnidirectional: supports 50 Watt input power, 2 dBi gain, wide beamwidth, N(F), flexible mounting options, 2 dBi (698-960) MHz and 4 dBi gain (1710-2700) MHz
CS03-043-380	UHF omnidirectional: supports 50 Watt input power, ceiling mount, low profile, (380-4000) MHz, N(F)
CS03-045-380	Directional panel: supports 50 Watt input power, panel mount, indoor/outdoor, (380-960) MHz, N(F)



# Antenna Mounting Brackets

Part Number	Description
750-2018-001	Bracket, antenna drywall ceiling mount for CS03-011-429 and CS03-011-429-02
750-2021-001	Bracket, antenna ceiling mount for CS03-011-429 and CS03-011-429-02
750-2023-001	Bracket, antenna drywall ceiling mount for CS03-036-852 and CS03-021-833/N



## Antenna and Mounting Bracket Bundles

Part Number	Description
CS03-011-429-BK	ClearLink-O/698-2.7K/N antenna and 750-2021-001 drywall ceiling antenna mounting bracket
CS03-021-833/N-BK	Ant-O/600-4000-Thinrnd/N(F) antenna and 750-2023-001 PVC ceiling antenna mounting bracket
CS03-036-852-BK	Slim Rnd Omni/SISO/600-6G/4.3-10(F) antenna and 750-2023-001 PVC ceiling antenna mounting bracket



## Filters, Crossband Couplers, Duplexers



Westell offers a variety of filters for different applications to filter out unwanted interference by splitting or combining different frequency bands or separate UL from DL signals.

Part Number	Description
CS06-766-842	Duplexer PS700, (788-805) MHz & (758-775) MHz, includes FirstNet® N(F)
CS06-767-843	Duplexer PS800, (806-824) MHz & (851-869) MHz, includes FirstNet® N(F)
CS06-770-846	700-800 MHz public safety rated, cross band coupler, (150-512) MHz port 1, (758-940) MHz port 2, N(F) connectors
CS06-771-847	VHF-UHF public safety rated, crossband coupler, (150-174) MHz port 1, (403-512) MHz port 2, N(F) connectors
CS06-764-838	Public safety rated, cross band (700 & 800) MHz coupler, (758-805) MHz port 1, (806-869) MHz port 2, N(F) connectors
CS09-172-434	800 MHz passband filter passes (806-816) MHz & (851-861) MHz, rejects adjacent cellular and Sprint 800 bands
CS09-768-845	FirstNet® Notch filter passes (700 & 800) MHz narrow band channels, notches FirstNet® band 14
CS48-132-633	Adapter to change between 4.3-10 to N connectors, 200 Watt 4.3-10(M)/N(F), -165 dBc (0 to 6000) MHz
CS60-024-001	RF coaxial surge protector / arrester utilizes gas tube discharge (GDT) technology, N(M)/N(F)
CS60-024-002	RF coaxial surge protector / arrester utilizes gas tube discharge (GDT) technology, N(F)/N(F)



## Public Safety Passives

Westell public safety rated passives include directional couplers, hybrid couplers, power splitters, and power tappers.

Public safety passives cover frequency ranges from (340-2700) MHz or (138-960) MHz, and offer low insertion loss and low VSWR in an IP-65 rated housing. All Westell passives include a 3-year warranty.\*

### Directional Couplers




Part Number	Description
(340-2700 MHz)	
CS05-488-429	5 dB directional coupler, public safety, 300 Watt, N connectors (340-2700) MHz
CS05-489-429	6 dB directional coupler, public safety, 300 Watt, N connectors (340-2700) MHz
CS05-490-429	10 dB directional coupler, public safety, 300 Watt, N connectors (340-2700) MHz
CS05-491-429	15 dB directional coupler, public safety, 300 Watt, N connectors (340-2700) MHz
CS05-492-429	20 dB directional coupler, public safety, 300 Watt, N connectors (340-2700) MHz



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Hybrid Couplers		
Part Number	Description	
CS05-487-390	3 dB hybrid coupler, public safety, 300 Watt, N connectors, (340-2700) MHz	
CV05-537-690	3 dB hybrid coupler, public safety, 200 Watt, N connectors, (138-960) MHz	
Power Splitters		
Part Number	Description	
(136-960 MHz)		
CV04-500-629	2-way power splitter, public safety, VHF-SPD2 N(F) (136-960) MHz	
CV04-501-629	3-way power splitter, public safety, VHF-SPD3 N(F) (136-960) MHz	
CV04-502-629	4-way power splitter, public safety, VHF-SPD4 N(F) (136-960) MHz	
(340-2700 MHz)		
CS04-472-429	2-way power divider, public safety, 300 Watt, N connectors (340-2700) MHz	
CS04-473-429	3-way power divider, public safety, 300 Watt, N connectors (340-2700) MHz	
CS04-474-429	4-way power divider, public safety, 300 Watt, N connectors (340-2700) MHz	
(450-2700 MHz)		
CS04-070-429	2-way power splitter, public safety, 300 Watt, N(F) (450-2700) MHz	
(698-2700 MHz)		
CS04-071-429	3-way power splitter, public safety, 300 Watt, N(F) (698-2700) MHz	
CS04-072-429	4-way power splitter, public safety, 300 Watt, N(F) (698-2700) MHz	
Power Tappers		
Part Number	Description	
(138-960 MHz)		
CV05-522-614	3 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-523-614	5 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-524-614	6 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-526-614	8 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-527-614	10 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-528-614	13 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-529-614	15 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-530-614	20 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
CV05-531-614	30 dB power taper, public safety, 200 Watt, N connectors (138-960) MHz	
(340-2700 MHz)		
CS05-494-114	3 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-478-114	5 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-479-114	6 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-480-114	7 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-481-114	8 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-482-114	10 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-483-114	13 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-484-114	15 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-485-114	20 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	
CS05-486-114	30 dB power taper, public safety, 200 Watt, N connectors (340-2700) MHz	



## Westell® RoM BoM Process

### Budgetary Rough Order of Magnitude Design Process

Westell provides design assist free of charge for Public Safety Systems. This service requires customers to submit Westell's Public Safety Design Request Form that can be obtained by request from Westell's RoM Design Team at [IBWDesign@westell.com](mailto:IBWDesign@westell.com).

Along with the completed form, a PDF, AutoCad, or other common image format of the floor plans for the venue building(s) is required for design and estimate accuracy. Please indicate on the form the location of the MDF and IDF(s) as well as any known cable pathways, desired headend location, riser for donor, and server antennas. Email the complete form and requested supporting information to [IBWDesign@westell.com](mailto:IBWDesign@westell.com).

The typical turnaround time is 7-10 business days. Inquire at [IBWDesign@westell.com](mailto:IBWDesign@westell.com) for estimated lead time of rush projects, and place the venue name in the subject line of all email correspondence.

Our team will begin the Budgetary Bill of Materials analysis once all materials requested are received and any unanswered questions are resolved.

## Solution Assistance & How to Buy

Sourcing and implementing Westell® products has never been easier.

If you need help with product selection, training, development, or complete solution assistance, please contact us at [info@westell.com](mailto:info@westell.com).

To purchase our products, just reach out to one of our authorized distribution channel partners at <https://www.westell.com/contact/distributors>.

## Westell® Training & Certification

### Product and Solution Support

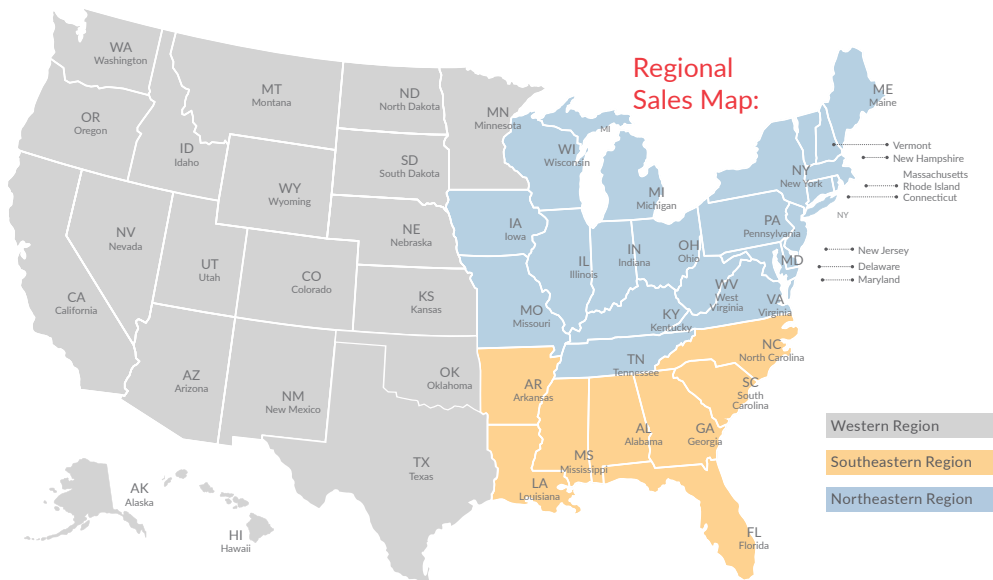
Westell offers comprehensive product and solutions training through instructor-led courses and webinars.

Here are a few features offered by Westell®:

1. Customized courses that meet the needs of your company.
2. Courses are taught at any location, including a Westell facility.
3. Courses combine informative lectures and demonstrations with hands-on activities.
4. Instructors have extensive experience in telecommunications and training.
5. Class sizes are limited to ensure you learn the products at your own pace.

### Ready to Learn More?

To schedule a custom course or certification, or to register for a webinar, visit <https://www.westell.com/support/training>.



Let's Talk More. Contact Westell Today!

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