



ADRF CONVERGED SOLUTION

Gabe Guevara, National DAS Director
386 Internationale Drive, Suite H · Bolingbrook, Illinois 60440
T 800.379.1191 · C 469.410.2090
gguevara@windycitywire.com

Jim Bowen, Sales Representative
386 Internationale Drive, Suite H · Bolingbrook, Illinois 60440
T 800.379.1191 ext 2847 · D 630.633.4547
F 630.633.4847 · jbowen@windycitywire.com



ADXV Supports Cellular and Public Safety Frequency Bands



ADRF's ADXV Series DAS is the leading optical distribution system that covers a full range of power levels, providing coverage and capacity for both commercial cellular and public safety applications.

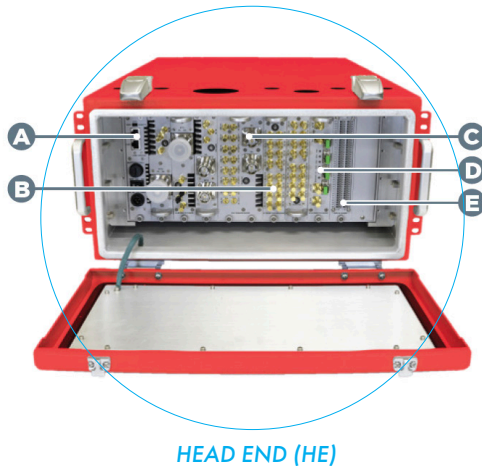
ADXV has two main components: the Head End (HE) and the Remote Unit (RU). The Head End is collocated with the base station or bi-directional amplifier and connected via an RF interface. The RF signals are transported to the Remote Units via single mode fiber. Depending on the size of your building, campus or facility, ADXV allows for a third component to expand the capabilities of your system using the Optical Expansion Unit (OEU).

As demand for enhanced coverage and faster throughput speeds increase, Distributed Antenna Systems (DAS) have become a key element of carrier networks. ADXV Series meets all distribution needs from the simplest to the most complex venues and it is capable of transporting frequencies from VHF to 4 GHz regardless of protocol or modulation. ADXV's flexible architecture allows for both public safety and cellular in the same NEMA 4 rated chassis. Some Authority Having Jurisdiction (AHJ) may require separate head end for public safety and cellular, however the 2 head ends can be daisy-chained to manage the entire system from a single point of interface.

Advantages of a Converged Solution

- Supports both commercial and public safety frequencies in a single head-end enclosure
- Supports frequency bands from VHF to C-Band
- IP66 / NEMA 4 rated and suitable for both indoor and outdoor environments
- Equipment and installation cost savings due to the shared architecture

ADXV provides cellular and public safety wireless coverage and capacity for buildings of any size, shape, and location.



HEAD END (HE)

Head End (HE) Features:

- Supports daisy chaining of up to 15 HE units with an Ethernet switch
- Daisy-chain multiple NMS to configure/monitor from a single point of interface
- Built-in CW Generator, Spectrum Analyzer, Programmable Power Sharing, Noise/Channel Power Level detection
- Supports up to 10 POI, POIL, ODU, or CHC standard size modules
- Automatic Level Control (ALC) of input RF power to user set value
- System-wide firmware update from the HE
- Remote monitoring and control capability using our famed Web-based GUI
- Supports Dry Contact Alarming and SNMP v1, v2c, v3 protocols
- Passively cooled NEMA4 Enclosure with support for up to 100W
- 100 to 240V AC input
- Supports battery backup unit
- Supports TCP/IPv4 and TCP/IPv6

Head End (HE) Components:

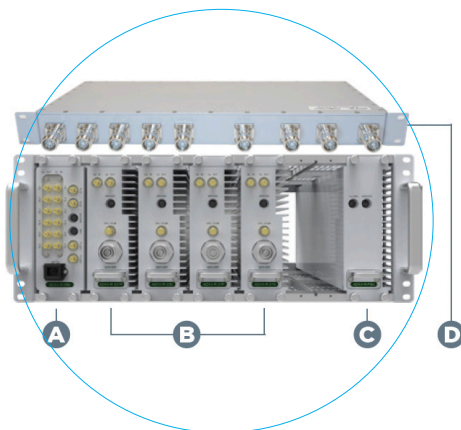
A - NEMA4 AC Power Head End NMS Package (ADXV-H-NMS-AC-N4)

B - Head End Channel Combiner Unit (ADXV-H-CHC-xx-X)

C - Head End Point of Interface Module (ADXV-H-POI-xx)

D - Head End Optical Donor Unit Module (ADXV-H-ODU-4-X)

E - Head End Auxiliary Alarm Interface Module (ADXV-H-AAI-U)



COMMERCIAL MID-POWER
REMOTE UNIT (MPR)

Commercial Mid-Power Remote Unit (MPR) Features:

- Supports up to 6 Band Specific Remote Modules (Excluding ORU slot in the 19" rack, 4U and expandable with ADXV-R-6WS)
- Built-in Spectrum Analyzer
- System-Wide Commissioning of all remotes to user set value
- Local Ethernet interface to the MPR
- Optional expansion rack (1.5U) to support additional 2 MPR modules
- Automatic Level Control (ALC) of output RF power to user set value
- Noise/Channel Power Level detection
- Band Specific Remote Modules available in 2W/5W
- 30dB test ports at each Remote Module
- PIM Rated 4.3-10 RF Output Connectors
- IP66 Rating

Commercial Mid-Power Remote Unit (MPR) Components:

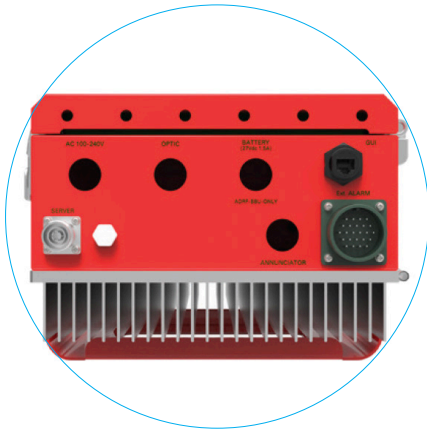
A - Mid-Power Remote Optical Remote Unit Module (ADXV-R-ORU-X)

B - Mid-Power Remote Amplifier Module (ADXV-R-33xx / ADXV-R-37xx)

C - Mid-Power Remote Power Supply Unit Module (ADXV-R-PSU-AC, ADXV-R-PSU-DC)

D - Mid-Power/High-Power Remote Universal Channel Combiner (ADXV-R-CHC-X2)

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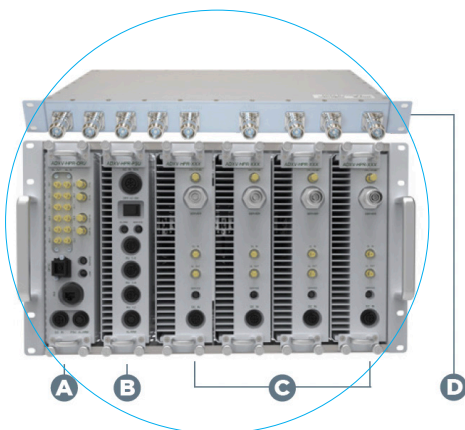
**PUBLIC SAFETY REMOTE UNIT
ADXV-R-3378P-U**

Public Safety Remote Unit, ADXV-R-3378P-U Features:

- Certified to UL 2524 (2nd Edition)
- Built-in Spectrum Analyzer
- NEMA4 Rated
- Dry Contact Alarming
- Battery Backup Support

Public Safety Remote Unit, ADXV-R-3378P-U Components:

- 4.3-10 (Female) duplex RF port
- Local Ethernet interface to the Remote Unit
- Automatic Level Control (ALC) of output RF power to user set value
- Noise/Channel Power Level detection
- 33dBm Composite Output Power for Public Safety 700MHz/800 MHz



**COMMERCIAL HIGH-POWER
REMOTE UNIT (HPR)**

Commercial High-Power Remote (HPR) Features:

- Supports up to 6 Band Specific HPR Modules (Expandable with ADXV-R-6WS)
- Built-in Spectrum Analyzer
- System-Wide Commissioning of all remotes to user set value
- Local Ethernet interface to the HPR
- Optional expansion rack (2U) to support one additional HPR module
- Automatic Level Control (ALC) of output RF power to user set value
- Noise/Channel Power Level detection
- Band Specific Modules available in 20W/40W
- 40dB test ports at each HPR module
- PIM Rated 4.3-10 Connectors
- IP66 Rating
- Optional Pole Mount Kit

Commercial High-Power Remote Unit (HPR) Components:

- A - High-Power Remote Optical Remote Unit Module (ADXV-HPR-ORU-X)
- B - High-Power Remote Power Supply Unit Module (ADXV-HPR-PSU-AC)
- C - High-Power Remote Amplifier Module (ADXV-HPR-43xx / ADXV-HPR-46xx)
- D - Mid-Power/High-Power Remote Universal Channel Combiner (ADXV-R-CHC-X2)



**PUBLIC SAFETY OPTICAL
EXPANSION UNIT FiRe-OEU-U**

Public Safety Optical Expansion Unit, FiRe-OEU-U Features:

- 100 to 240V AC input with battery backup support
- Supports frequency range between VHF to C-Band
- Supports up to 8 additional remotes with up to 5dB optical loss
- Supports up to 2 PSR-ANN-L Annunciators
- NEMA4 Rated
- Summary dry contact alarming for all remote units and dedicated dry contact alarming for FiRe-OEU-U
- Provides DAS coverage to remote buildings while minimizing equipment and fiber

HOW THIS ALL BENEFITS END USERS

- Significantly reduces labor and material costs
- Stocking and staging capabilities
- Fast turnaround times and deliveries
- WCW messenger and delivery services available

WINDY CITY WIRE BEST PRACTICES

- You will receive a personal account representative to assist you in every aspect of the ordering process. Our team will help you make cost effective choices and ensure the correct use of all of products, saving you time and money.
- Access to our online portal to place and track orders, view frequently purchased devices, check current inventory levels, review and order projects quoted, get account and payment status plus much more.

CONTACT US TODAY

We look forward to working with your team and showing you **The Windy City Wire Difference** in everything that we do.