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ADX V Fiber Distributed Antenna System

The ADXV Series represents the next evolution of DAS technology and architecture:

- Truly modular architecture means our single ADXV platform is ideal for both single carrier, neutral host, or commercial + public safety converged systems
- The most flexible platform on the market provides a genuinely future-proofed solution so you only pay for what you need now
- Class-leading output power with 2W, 5W, 20W, 30W, and 40W in commercial and public safety bands covers virtually all in-building applications with significant cost savings
- Famed ADRF web-based GUI allows remote network control and alarm monitoring
- Built-in Spectrum Analyzer and Signal Generator at Head End
- Built-in Spectrum Analyzer at the Remote Units
- Up to 10dBo of optical link budget over one strand of SMF per remote unit lowers cost and complexity and increases reach into disparate topologies
- Innovative Power Sharing Control enables dynamic power allocation amongst carriers or technologies
- Patented technologies (such as Band Commissioning Routine™ and Noise Detection Routine™) speed commissioning time to reduce cost

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Version 0.8 (updated on 08/04/2023)

Product Specification

HIGHLIGHTS

System

- Control parameters such as gain, output power, and alarm threshold can be changed using the Web-GUI interface allowing the user to fine tune the system to the given RF environment
- Incremental Automatic Shutdown/Resume Time: ADXV gradually increases the time span between automatic shutdown and resume period before it permanently shuts itself down
- Supports ALC function to prevent ADXV DAS from input overload or output overpower
- Supports SNMP v1, v2c, v3 (get, set, & traps)
- Modular structure
- Operates with up to 10dBo optical loss (via Single Mode Fiber) or 15dBo with the use of the OEU
- Requires only a single strand of single-mode fiber per Remote Unit
- Supports back-up and selective restore of setting parameters for all connected active modules in ADXV DAS via web-based GUI
- Noise Figure under 5dB @ max gain
- VSWR under 1.3:1 for BTS Interface Port

Head End

- Supports power-sharing of multiple carriers' signals via configurable grouped POI/POIL units
- MIMO / Multi-Sector capable with a single Head End
- Daisy-chain and monitor up to 3 Head Ends or up to 15 Head Ends with an Ethernet hub to monitor the entire system from a single point of interface
- Web-based GUI and connectivity via DHCP (in host mode); no 3rd party GUI software required
- Supports dry contact alarming
- Both AC and DC power supply options are available
- NEMA4 Enclosure for AC version
- SMB (snap-on) interconnections for quick installation
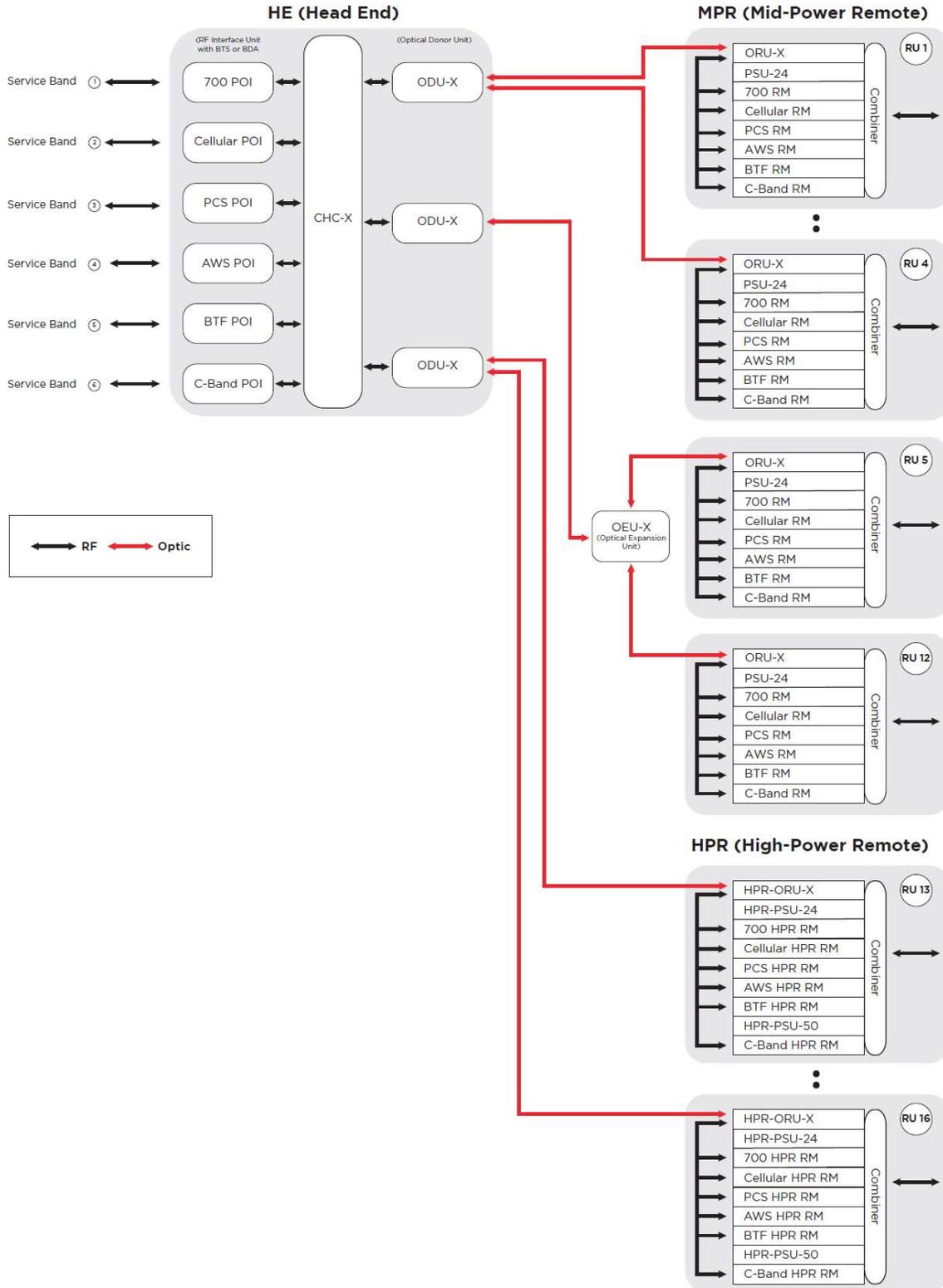
Medium Power Remote Unit

- 33dBm of downlink composite output power for 600 MHz, 700 MHz APT, 700 MHz (Commercial), 700 MHz (Commercial) + B14, Cellular + SMR800, and 700 + 800 MHz Public Safety
- 37dBm of downlink composite output power for PCS, AWS, WCS, BRS (FDD-LTE), and C-Band (5GNR)
- 33dBm of downlink composite output power for BRS (TD-LTE/5GNR) w/ 194MHz support
- 25dBm of downlink composite output power for VHF + UHF
- IP66 rating without any additional chassis
- 30dB coupling test ports on each individual remote module
- Both AC and DC power supply options are available

High Power Remote Unit

- 43dBm of downlink composite output power for 600MHz, 700 MHz (Commercial), 700 MHz (Commercial) + B14, and Cellular + SMR800, and BRS (TD-LTE/5GNR) w/ 194MHz support
- 46dBm of downlink composite output power for PCS, AWS, BRS (FDD-LTE), and C-Band (5GNR)
- 45dBm of downlink composite output power for WCS
- IP66 rating without any additional chassis
- 40dB coupling test ports on each individual remote module
- Both AC and DC power supply options are available

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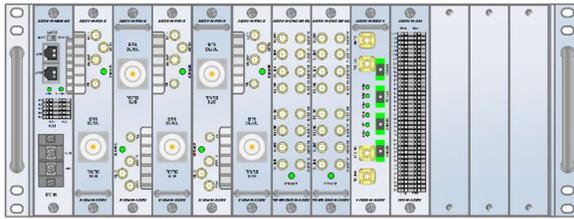
Product Specification

SYSTEM ARCHITECTURE

ADX V Series active fiber DAS is comprised of Head End (HE) equipment and Remote Unit (RU) equipment.

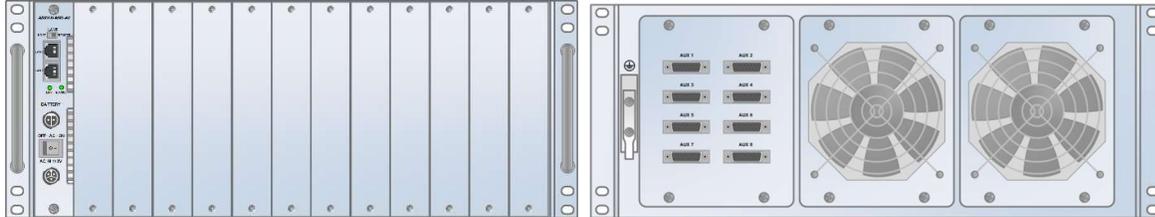Specifications are subject to change without notice. ©2023 Advanced RF Technologies, Inc.

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Version 0.8 (updated on 08/04/2023)

ADX V HEAD END EQUIPMENT

ADXV-H-NMS-AC

NMS-AC (AC Power Head End NMS Package)

- 100 to 240V AC input
- Daisy-chain multiple NMS to configure/monitor from a single point of interface
- Supports battery backup unit
- Supports up to 12 POI, POIL, ODU, or CHC standard size modules
- Supports up to 8 ADXV-H-RACK to support up to an additional 16 ODU or CHC-44M/CHC-88 modules
- Supports TCP/IPv4 and TCP/IPv6
- SNMP v1, v2c, and v3 (get, set, & trap)

ADXV-H-NMS-DC

NMS-DC (DC Power Head End NMS Package)

- -36 to -72V DC input
- Daisy-chain multiple NMS to configure/monitor from a single point of interface
- Supports up to 12 POI, POIL, ODU, or CHC standard size modules
- Supports up to 8 ADXV-H-RACK to support up to an additional 16 ODU or CHC-44M/CHC-88 modules
- Supports TCP/IPv4 and TCP/IPv6
- SNMP v1, v2c, and v3 (get, set, & trap) and dry contact alarm support

Product Specification

ADXV-H-POI

POI (High Power Point of Interface Unit)

- 7/16 DIN (Female) Simplex DL/Duplex Input and SMA (Female) Simplex UL port
- 7/16 DIN (Female) Duplex Input only for ADXV-H-POI-BTF (BRS TD-LTE/5GNR) module
- Receives RF input signals from 0dBm to +48dBm
- Available for 600 MHz, 700MHz APT, Lower 700 MHz (Commercial), Upper 700 MHz (Commercial) + Band14, SMR800 + Cellular, PCS, AWS, WCS, BRS (TD-LTE/5GNR), and BRS (FDD-LTE)
- Power ratios can be specified between multiple POI units via NMS
- Built-in spectrum analyzer and signal generator (2-tone)

ADXV-H-POI-N77L / ADXV-H-POI-N77H

POI-N77L / POI-N77H (C-Band High Power Point of Interface Unit)

- ADXV-H-POI-N77L supports 3450 to 3550 MHz
- ADXV-H-POI-N77H supports 3700 to 3980 MHz
- 7/16 DIN (Female) Simplex DL/Duplex Input and SMA (Female) Simplex UL port
- Receives RF input signals from 0dBm to +46dBm
- Power ratios can be specified between multiple POI units via NMS
- Built-in signal generator (1-tone)

ADXV-H-POIL

POIL (Low Power Point of Interface Unit)

- 4.3-10 (Female) Simplex DL/Duplex Input and 4.3-10 (Female) Simplex UL port
- Receives RF input signals from 0dBm to +25dBm
- Available for 700 + 800 Public Safety, 800 Public Safety + SMR800, 900MHz + Paging, and BRS (FDD-LTE)
- Power ratios can be specified between multiple POIL units via NMS
- Built-in spectrum analyzer and signal generator (2-tone)

ADXV-H-POIL-VU

*POIL-VU (VHF/UHF Low Power Point of Interface Unit)*

- 4.3-10 (Female) Simplex DL/UL ports
- Receives RF input signals from 0dBm to +25dBm
- Supports VHF and UHF frequencies
- Built-in spectrum analyzer and signal generator for UHF bands

Version 0.8 (updated on 08/04/2023)

Product Specification

ADXV-H-CHC-88-DL/UL
CHC-88-DL/UL (8x8 Combiner)
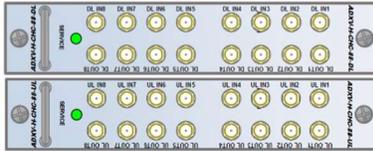
- Supports 600MHz to BRS
- SMB (snap-on) inputs and outputs
- Supports up to 8 inputs and 8 outputs
- Designed for single carrier application
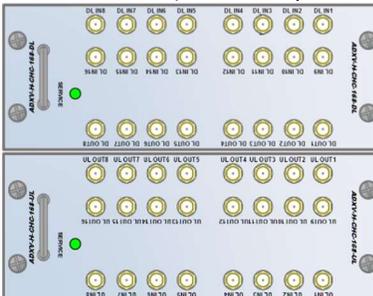
ADXV-H-CHC-88-DL/UL-X
CHC-88-DL/UL-X (8x8 Combiner)
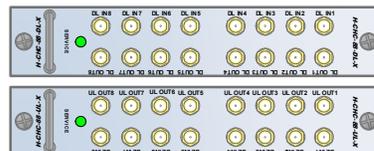
- Supports 600MHz to C-Band
- SMB (snap-on) inputs and outputs
- Supports up to 8 inputs and 8 outputs
- Designed for single carrier application

### ADXV-H-CHC-44M-DL/UL
CHC-44M-DL/UL (4x4 MIMO Combiner)

- Supports 600MHz to BRS
- SMB (snap-on) inputs and outputs
- Supports up to 4 inputs and 4 outputs x 2
- Designed for quad-band MIMO application

ADXV-H-CHC-168-DL/UL
CHC-168-DL/UL (16x8 Enterprise Combiner)

- Supports 600MHz to BRS
- SMB (snap-on) inputs and outputs
- Supports up to 16 inputs and 8 outputs
- Designed for Enterprise application to support up to 16 inputs

ADXV-H-CHC-168-DL/UL-X
CHC-168-DL/UL-X (16x8 Enterprise Combiner)
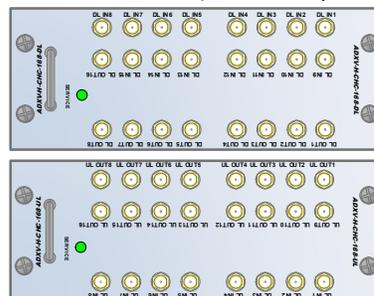
- Supports 600MHz to C-Band
- SMB (snap-on) inputs and outputs
- Supports up to 16 inputs and 8 outputs
- Designed for Enterprise applications to support up to 16 inputs

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Version 0.8 (updated on 08/04/2023)

Product Specification

ADXV-H-ODU-4

ODU-4 (4 Port Optic Donor Unit)

- Supports frequency range between 136 – 2690 MHz (VHF to BRS)
- SMB (snap-on) Input RF ports | SC/APC Fiber ports
- Minimizes the number of optic cables needed by transporting multi band signals over a single strand of fiber using WDM technology
- Supports up to 4 remote units with up to 5dBo loss

ADXV-H-ODU-4-X

ODU-4-X (4 Port Optic Donor Unit)

- Supports frequency range between 600 – 4200 MHz (600MHz to C-Band)
- SMB (snap-on) Input RF ports | SC/APC Fiber ports
- Minimizes the number of optic cables needed by transporting multi band signals over a single strand of fiber using WDM technology
- Supports up to 4 remote units with up to 5dBo loss

ADXV-H-ODU-1

ODU-1 (1 Port Optic Donor Unit)

- Supports frequency range between 136 – 2690 MHz (VHF to BRS)
- SMB (snap-on) Input RF ports | SC/APC Fiber ports
- Minimizes the number of optic cables needed by transporting multi band signals over a single strand of fiber using WDM technology
- Supports up to 1 remote unit with up to 10dBo loss

ADXV-H-RACK

H-RACK (19" Rack for HE Components)

- 19" expansion rack for ADXV HE components
- Supports up to 2 ODU or CHC-88/CHC-44M

ADXV-H-AAI

AAI (Auxiliary Alarm Interface Module)

- Supports dry contact alarming for ADXV HE components
- Supports dry contact alarming for up to 4 public safety remote units
- Additional public safety remotes units can be monitored with additional AAI modules
- Supports up to 6 dry contact input alarms

Version 0.8 (updated on 08/04/2023)

Product Specification

ADX V MEDIUM POWER REMOTE UNIT EQUIPMENT
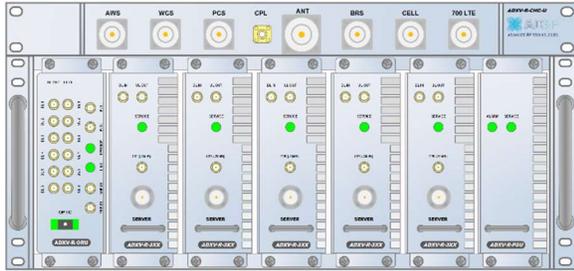
ADXV-R-CHA

CHA (Remote Module Chassis)

- Both wall and 19" rack mount solution for remote modules
- Supports up to 7 ADXV slot-type standard size remote components

ADXV-R-CHA-3

CHA-3 (3-Slot Remote Module Chassis)

- Wall mount solution for remote modules
- Supports up to 3 ADXV slot-type standard size remote components
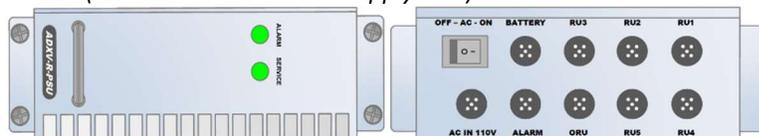
ADXV-R-RACK

R-RACK (19" Rack for Remote Modules)

- 19" expansion rack for ADXV RU components
- Supports up to 2 ORU, RAM, or PSU

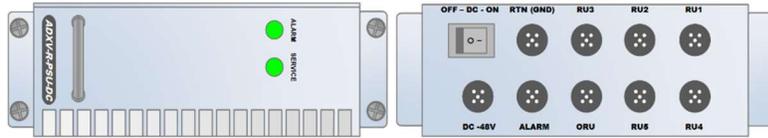### ADXV-R-PSU-AC

PSU-AC (AC Remote Unit Power Supply Unit)

- 100 to 240V AC input
- 500W Power Capacity
- Supports PSU alarming
- Supports ADRF-BBx-X for a battery backup solution

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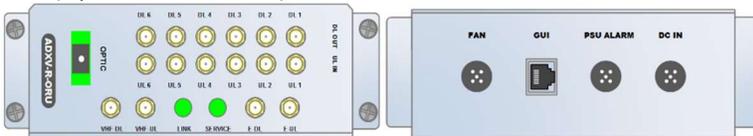
Product Specification

ADXV-R-PSU-DC

PSU-DC (DC Remote Unit Power Supply Unit)

- -36 to -72V DC input
- 500W Power Capacity
- Supports PSU alarming

ADXV-R-ORU

ORU (Optical Remote Unit)

- Supports 600MHz to BRS
- SMA (Female) RF ports
- SC/APC connector to receive optic and convert to RF
- Supports up to 6 remote modules
- Expansion UL and DL ports available to support additional remote modules
- Local GUI port available to log into local remote unit

ADXV-R-ORU-X

ORU-X (Optical Remote Unit)
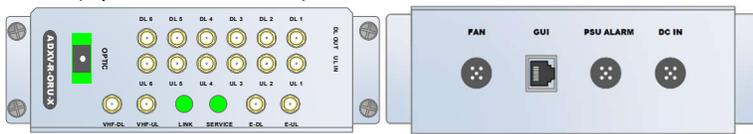
- Supports 600MHz to C-Band
- SMA (Female) RF ports
- SC/APC connector to receive optic and convert to RF
- Supports up to 6 remote modules
- Expansion UL and DL ports available to support additional remote modules
- Local GUI port available to log into local remote unit
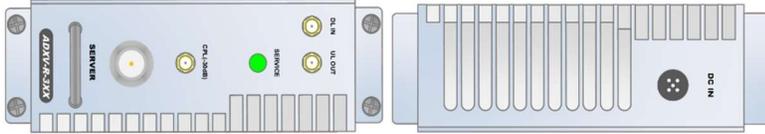
ADXV-R-6WS

6WS (6-Way Splitter)

- Supports 600MHz to C-Band
- SMA (Female) RF ports
- Connects to Expansion ports on ORU/ORU-X and supports up to 6 additional remote modules
- Wall or 19" Rack Mountable
- IP66 Outdoor Rated

Product Specification

ADXV-R-33X/37X
RAM (2W and 5W Remote Amplifier Module)

- SMA (Female) and 4.3-10 (Female) RF ports
- 33dBm of downlink composite output power on low band
- 37dBm of downlink composite output power on high band
- 33dBm of downlink composite output power on ADXV-R-33BTF
- 30dB test port available at every band specific remote module

ADXV-R-37N77L / ADXV-R-37N77H
RAM (5W C-Band Remote Amplifier Module)
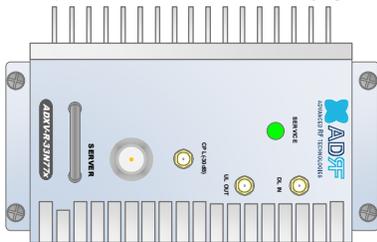
- ADXV-R-37N77L supports 3450 to 3550 MHz
- ADXV-R-37N77H supports 3700 to 3980 MHz
- SMA (Female) and 4.3-10 (Female) RF ports
- 37dBm of downlink composite output power
- 30dB test port
- Occupies 2 slots in the ADXV-R-CHA

ADXV-R-337FN
RAM (2W 700MHz + B14 Remote Amplifier Module)

- Supports Lower A, B, C + Upper C + B14
- SMA (Female) and 4.3-10 (Female) RF ports
- 33dBm of downlink composite output power
- 30dB test port available
- Occupies 2 slots in the ADXV-R-CHA

Product Specification

ADXV-R-FAN-DC

R-FAN (Remote Module Fan)
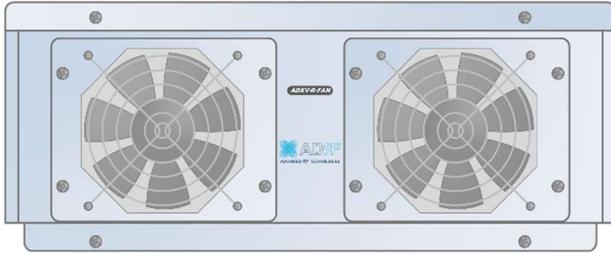
- Mounts to the rear of the ADXV-R-CHA
- Provides active cooling when more than 4 RAMs are deployed in a single ADXV-R-CHA
- Provides cable management for RAM power cables
- Field replaceable fans

ADXV-R-25VU-N4X
RAM (VHF/UHF Remote Amplifier Module)
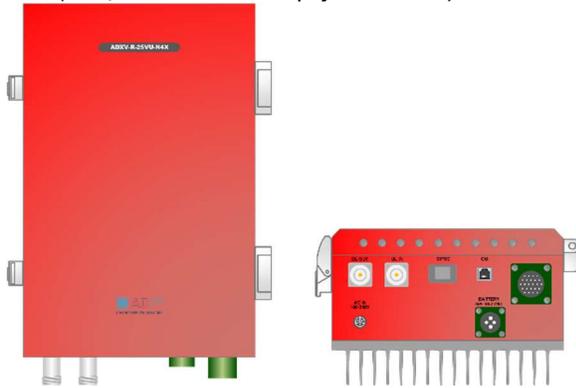
- 4.3-10 (Female) simplex RF ports
- Supports dry contact alarming
- Supports ADRF-BBx-X battery backup solution
- Local GUI port available to log into local remote unit
- 25dBm composite output power
- NEMA4 Rated

ADXV-R-3378P-N4X
RAM (700/800 MHz Public Safety Remote Amplifier Module)
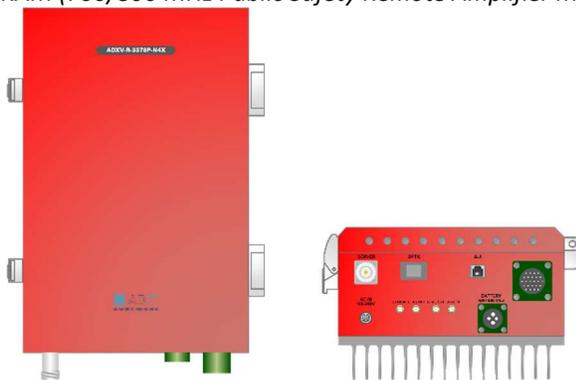
- 4.3-10 (Female) duplex RF port
- Supports dry contact alarming
- Supports ADRF-BBx-X battery backup solution
- Local GUI port available to log into local remote unit
- 33dBm of downlink composite output power
- NEMA4 Rated

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ADX V HIGH POWER REMOTE UNIT EQUIPMENT
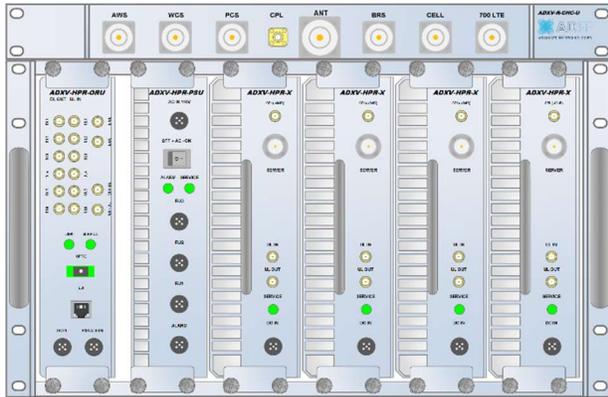
ADXV-HPR-CHA

HPR-CHA (High Power Remote Chassis)
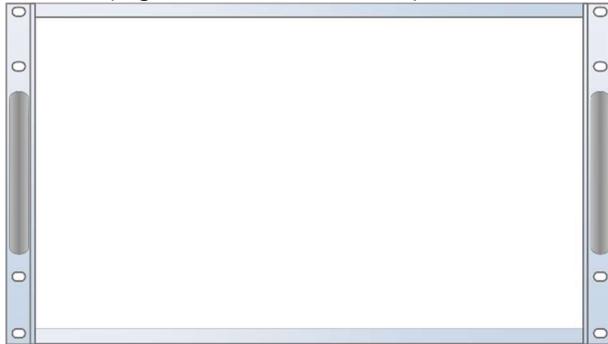
- Both wall and 19" rack mount solution for high power remote modules
- Supports up to 6 ADXV slot-type high power remote components

ADXV-HPR-RACK

HPR-RACK (19" Rack for HPR Remote Modules)

- 19" expansion rack for ADXV HPR components
- Supports 1 HPR-ORU, HPR-RAM, HPR-PSU, or HPR-CHC

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ADXV-HPR-PMK

HPR-PMK (HPR Pole Mount Kit)

- Supports up to 8 ADX V DAS HPR modules and 1 HPR-CHC combiner
- Mountable on wood poles with diameters from 10" to 30"

Version 0.8 (updated on 08/04/2023)

Product Specification

ADXV-HPR-PSU-AC
PSU-AC (AC Power Supply Unit)
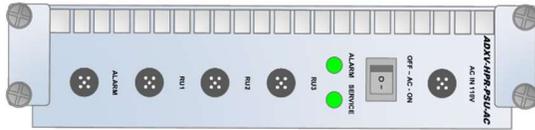
- 100 to 240V AC input
- 24V DC Output
- 1.5kW Power Capacity
- Supports PSU alarming

ADXV-HPR-PSU-AC-50
PSU-AC-50 (AC Power Supply Unit 50V DC)
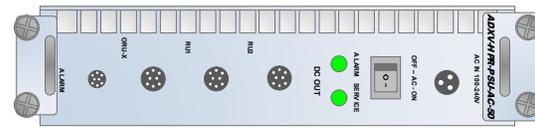
- 100 to 240V AC input
- 50V DC Output
- 1.0kW Power Capacity
- Supports PSU alarming
- Required for ADXV-HPR-46N77x modules

ADXV-HPR-PSU-DC
PSU-DC (DC Power Supply Unit)
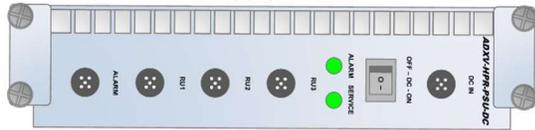
- -36 to -72V DC input
- 24V DC Output Power
- 1.5kW Power Capacity
- Supports PSU alarming

ADXV-HPR-PSU-DC-50
PSU-DC-50 (DC Power Supply Unit 50V DC)
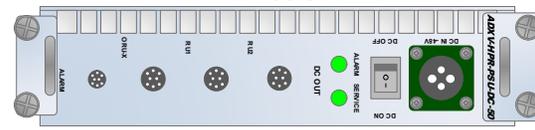
- -36 to -72V DC input
- 50V DC Output
- 1.2kW Power Capacity
- Supports PSU alarming
- Required for ADXV-HPR-46N77x modules

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Product Specification

ADXV-HPR-ORU
HPR ORU (Optical Remote Unit)
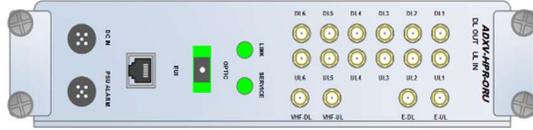
- Supports 600MHz to BRS
- SMA (Female) RF ports
- SC/APC connector to receive optic and convert to RF
- Supports up to 6 remote modules
- Expansion UL and DL ports available to support additional remote modules
- Local GUI port available to log into the remote unit

ADXV-HPR-ORU-X
HPR ORU-X (Optical Remote Unit)
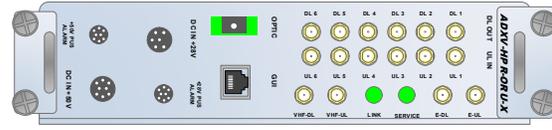
- Supports 600MHz to C-Band
- SMA (Female) RF ports
- SC/APC connector to receive optic and convert to RF
- Supports up to 6 remote modules
- Expansion UL and DL ports available to support additional remote modules
- Local GUI port available to log into the remote unit

ADXV-HPR-43X/45X/46X
HPR RAM (20W, 30W, and 40W HPR Remote Amplifier Module)

- SMA (Female) and 4.3-10 (Female) RF ports
- 43dBm of downlink composite output power on low band
- 43dBm of downlink composite output power on ADXV-HPR-43BTF (BRS TD-LTE/5GNR)
- 45dBm of downlink composite output power on ADXV-HPR-45W (WCS)
- 46dBm of downlink composite output power on high band
- 40dB test port available at every band specific remote module

ADXV-HPR-46N77L / ADXV-HPR-46N77H
HPR RAM (40W C-Band HPR Remote Amplifier Module)
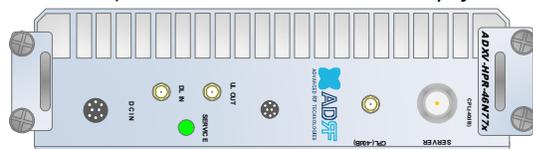
- ADXV-HPR-46N77L supports 3450 to 3550 MHz
- ADXV-HPR-46N77H supports 3700 to 3980 MHz
- SMA (Female) and 4.3-10 (Female) RF ports
- 46dBm of downlink composite output power

Product Specification

ADX V OPTICAL EXPANSION UNITS

ADXV-R-OEU-8

OEU-8 (Optical Expansion Unit)
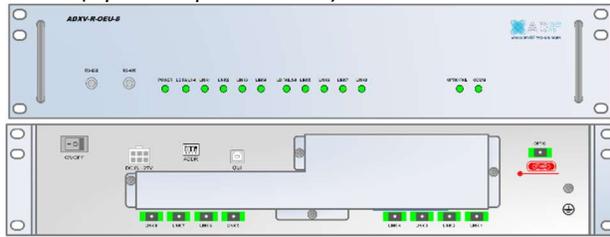
- Supports frequency range between 136 – 2690 MHz
- Operates with up to 5dBo optical loss between OEU and ORU
- Drives up to 8 additional ORUs
- Provides DAS coverage to remote buildings while minimizing equipment and fiber
- Supports system login at the OEU-8 via USB port
- Requires DC power from ADXV-R-ADP (not included)

ADXV-R-OEU-8-X

OEU-8-X (Optical Expansion Unit)
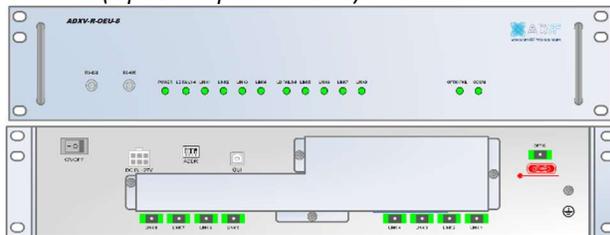
- Supports frequency range between 600 – 4200 MHz
- Operates with up to 5dBo optical loss between OEU-X and ORU-X
- Drives up to 8 additional remotes
- Provides DAS coverage to remote buildings while minimizing equipment and fiber
- Supports system login at the OEU-8-X via USB port
- Requires DC power from ADXV-R-ADP (not included)

Combining Options

ADXV-R-CHC-U
CHC-U (Enterprise RU Channel Combiner)

- 4.3-10 (Female) input ports | 7/16 DIN (Female) output port
- Supports 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, and BRS
- Combines outputs of RAMs with minimal loss
- Wall or 19" Rack Mountable
- IP67 Outdoor Rated

ADXV-R-CHC-X
CHC-X (Enterprise RU Channel Combiner)

- 4.3-10 (Female) input | 7/16 DIN (Female) output port
- Supports 600MHz, 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, BRS, and CBRS
- Combines outputs of RAMs with minimal loss
- Wall or 19" Rack Mountable
- IP67 Outdoor Rated

ADXV-R-CHC-X2
CHC-X2 (Enterprise RU Channel Combiner w/ C-Band)

- 4.3-10 (Female) input | 4.3-10 (Female) output port
- Supports 600MHz, 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, BRS, and C-Band (3450-3550/3700-3980 MHz)
- Combines outputs of RAMs with minimal loss
- Wall or 19" Rack Mountable
- IP67 Outdoor Rated

ADXV-HPR-CHC-U
HPR-CHC-U (Universal Low Loss Channel Combiner)

- 4.3-10 (Female) input and output ports
- Supports 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, and BRS
- Combines outputs of RAMs with minimal loss
- Installs into an ADXV-HPR-PMK, ADXV-HPR-CHA, or ADXV-HPR-RACK
- IP67 Outdoor Rated

ADXV-HPR-CHC-U-LH
HPR-CHC-U-LH (Universal Low/High Band Channel Combiner)
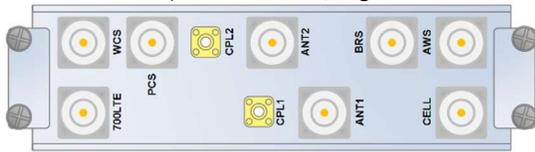
- 4.3-10 (Female) input and output ports
- Supports 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, and BRS
- Dedicated sum port for low bands and high bands
- Installs into an ADXV-HPR-PMK, ADXV-HPR-CHA, or ADXV-HPR-RACK
- IP67 Outdoor Rated

ADXV-HPR-CHC-X
HPR-CHC-X (Universal Low Loss Channel Combiner)
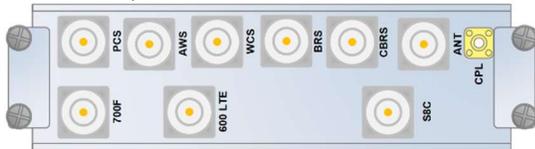
- 4.3-10 (Female) input | 7/16 DIN (Female) output port
- Supports 600MHz, 700 MHz, SMR800 + Cellular, PCS, AWS, WCS, BRS, and CBRS
- Combines outputs of RAMs with minimal loss
- Installs into an ADXV-HPR-PMK, ADXV-HPR-CHA, or ADXV-HPR-RACK
- IP67 Outdoor Rated

Product Specification

SUPPORTED FREQUENCY BANDS

Frequency Band	Frequency Range		Remarks
	Downlink	**Uplink**	
VHF	136 – 174 MHz		
UHF	380 – 512 MHz		
600 MHz	617 – 652 MHz	663 – 698 MHz	
700 MHz APT	758 – 803 MHz	703 – 748 MHz	
Lower 700 MHz Commercial	728 – 746 MHz	698 – 716 MHz	Lower A, B, C
Upper 700 MHz Commercial	746 – 757 MHz	776 – 787 MHz	Upper C
B14	758 – 768 MHz	788 – 798 MHz	
700 MHz Public Safety	758 – 775 MHz	788 – 805 MHz	
800 MHz Public Safety	851 – 861 MHz	806 – 816 MHz	
800 MHz Public Safety + SMR800 Commercial	851 – 869 MHz	806 – 824 MHz	
SMR800 Commercial + Cellular	862 – 894 MHz	817 – 849 MHz	
900 MHz + Paging	928 – 942 MHz	896 – 903 MHz	
PCS	1930 – 1995 MHz	1850 – 1915 MHz	
AWS	2110 – 2180 MHz	1710 – 1780 MHz	
WCS	2350 – 2360 MHz	2305 – 2315 MHz	
BRS (TD-LTE/5GNR)	2496 – 2690 MHz		
BRS (FDD-LTE)	2620 – 2690 MHz	2500 – 2570 MHz	
C-Band (5GNR) – Low	3450 – 3550 MHz		
C-Band (5GNR) – High	3700 – 3980 MHz		

SYSTEM SPECIFICATIONS

Parameters		Specifications
Supported Frequency Bands (DL/UL)		136-174 | 380-512 | 617-652/663-698 | 758-803/703-748 | 728-746/698-716 | 746-757/776-787 | 758-768/788-798 | 758-775/788-805 | 851-861/806-816 | 851-869/806-824 |862-894/817-849 | 928-942/896-903 | 1930-1995/1850-1915 | 2110-2180/1710-1780 | 2350-2360/2305-2315 | 2496-2690 | 2620-2690/2500-2570 | 3450-3550 MHz | 3700-3980 MHz
Service Bandwidth @ 2G, 3G, 4G (LTE), 5G(NR)	Head End	Full licensed bandwidth per band
	Remote Unit	Up to 60MHz per band Up to 194MHz for ADXV-R-33BTF/ADXV-HPR-43BTF (BRS) Up to 100MHz for ADXV-R-37N77L / ADXV-HPR-46N77L (Low C-Band) Up to 280MHz for ADXV-R-37N77H / ADXV-HPR-46N77H (High C-Band)
Downlink Input Power Range	POI	0~+48dBm
	POI-N77x	0~+46dBm
	POIL	0~+25dBm
Gain	Uplink	-20~+10dB
	Downlink	POI to RAM (2W): -15~33dB | POIL to RAM (2W): 8~33dB
		POI to RAM (5W): -11~37dB | POIL to RAM (5W): 12~37dB
		POI to HPR RAM (20W): -5~43dB | POIL to HPR RAM (20W): 18~43dB
		POI to HPR RAM (30W): -3~45dB | POIL to HPR RAM (30W): 20~45dB
		POI to HPR RAM (40W): -2~46dB | POIL to HPR RAM (40W): 21~46dB
Maximum Composite Output Power (DL)		VHF/UHF: 25dBm Low Band: 33dBm, 43dBm High Band: 33dBm, 37dBm, 43dBm, 45dBm, 46dBm
Maximum Composite Output Power (UL)		-35dBm (Typical) | -15dBm (Max)
Noise Figure		≦ 5dB @ Max Gain (Center Frequency)
VSWR (Medium Power)		< 1.3 : 1 @ BTS Interface Port | < 1.5 : 1 @ Internal Interface Port
Optic Loss		0~10dBo
System Delay		< 2us
Spurious		Meet FCC rules, 3GPP TS 36.104, 3GPP2 C.S0010-C
Spurious @ 5G NR		Meet FCC rules, 3GPP TS 38.104, 3GPP TS 38.141
Optic Connectors		SC/APC
Optic Wavelength		1310nm for downlink, 1550nm for uplink
Operating Temperature		HE: 14 ~ 122°F (-10 ~ 50°C) | RU: -22 ~ 131°F (-30 ~ 55°C)
Operating Humidity		5~95% RH
Power Input	Head End	ADXV-H-NMS-AC: 100 to 240V, 50-60Hz with battery backup function ADXV-H-NMS-DC: -36V to -72V DC
	Remote Unit	ADXV-R-PSU-AC: 100 to 240V, 50-60Hz with battery backup function ADXV-R-PSU-DC: -36V to -72V DC ADXV-HPR-PSU-AC/AC-50: 100 to 240V, 50-60Hz ADXV-HPR-PSU-DC/DC-50: -36V to -72V DC
Network Management System		Ethernet (RJ45)
RF Connector	POI	DIN (Female) | SMA (Female) | SMB (Female)
	POIL	4.3-10 (Female) | SMB (Female)
	Remote Modules	4.3-10 (Female) | SMA (Female)
Weather Resistance (Remote Modules)		IP66

Product Specification

WEIGHT, SIZE, AND POWER CONSUMPTION

Product Name	Weight	Size (W x H x D)	Rack Units	AC Power Consumption (W)	DC Power Consumption (W)	BTU/hrs
Head End						
ADXV-H-NMS-AC	20.9 lbs	19.0 x 7.0 x 19.7 in	4U	19.64	10.62	67.01
ADXV-H-NMS-DC	20.0 lbs	19.0 x 7.0 x 19.7 in	4U	--	16.24	55.41
ADXV-H-ODU-4	5.30 lbs	1.3 x 6.85 x 17.0 in	--	21.19	16.84	72.30
ADXV-H-ODU-4-X	5.30 lbs	1.3 x 6.85 x 17.0 in	--	21.12	13.87	72.06
ADXV-H-ODU-1	5.30 lbs	1.3 x 6.85 x 17.0 in	--	14.27	11.58	48.69
ADXV-H-POI-6	6.17 lbs	1.3 x 6.85 x 17.0 in	--	14.77	11.83	50.39
ADXV-H-POI-7APT	6.17 lbs	1.3 x 6.85 x 17.0 in	--	13.59	10.93	46.37
ADXV-H-POI-7L	6.17 lbs	1.3 x 6.85 x 17.0 in	--	13.54	10.68	46.20
ADXV-H-POI-7U	6.17 lbs	1.3 x 6.85 x 17.0 in	--	13.54	10.68	46.20
ADXV-H-POI-S8C	6.17 lbs	1.3 x 6.85 x 17.0 in	--	13.21	10.54	45.07
ADXV-H-POI-P	6.17 lbs	1.3 x 6.85 x 17.0 in	--	14.78	11.83	50.43
ADXV-H-POI-A	6.17 lbs	1.3 x 6.85 x 17.0 in	--	14.77	11.83	50.39
ADXV-H-POI-W	6.17 lbs	1.3 x 6.85 x 17.0 in	--	14.77	11.83	50.39
ADXV-H-POI-BTF	6.17 lbs	1.3 x 6.85 x 17.0 in	--	20.97	16.45	71.55
ADXV-H-POI-B	6.17 lbs	1.3 x 6.85 x 17.0 in	--	14.77	11.83	50.39
ADXV-H-POI-N77L	6.17 lbs	1.3 x 6.85 x 17.0 in	--	5.12	4.14	17.47
ADXV-H-POI-N77H	6.17 lbs	1.3 x 6.85 x 17.0 in	--	5.32	4.23	18.15
ADXV-H-POIL-VU	6.61 lbs	2.6 x 6.85 x 17.0 in	--	8.40	6.82	28.66
ADXV-H-POIL-78P	5.00 lbs	1.3 x 6.85 x 17.0 P	--	10.25	8.36	34.97
ADXV-H-POIL-S8	5.00 lbs	1.3 x 6.85 x 17.0 in	--	10.49	8.49	35.79
ADXV-H-POIL-9P	5.00 lbs	1.3 x 6.85 x 17.0 P	--	10.49	8.49	35.79
ADXV-H-POIL-B	5.00 lbs	1.3 x 6.85 x 17.0 in	--	11.69	9.26	39.88
ADXV-H-CHC-88-DL	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.06	0.90	3.61
ADXV-H-CHC-88-UL	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.06	0.90	3.61
ADXV-H-CHC-88-DL-X	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.02	0.48	3.48
ADXV-H-CHC-88-UL-X	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.02	0.48	3.48
ADXV-H-CHC-44M-DL	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.06	0.90	3.61
ADXV-H-CHC-44M-UL	4.40 lbs	1.3 x 6.85 x 17.0 in	--	1.06	0.90	3.61
ADXV-H-CHC-168-DL	7.71 lbs	2.6 x 6.85 x 17.0 in	--	3.29	2.7	11.22
ADXV-H-CHC-168-UL	7.71 lbs	2.6 x 6.85 x 17.0 in	--	3.29	2.7	11.22
ADXV-H-CHC-168-DL-X	7.71 lbs	2.6 x 6.85 x 17.0 in	--	3.29	2.7	11.22
ADXV-H-CHC-168-UL-X	7.71 lbs	2.6 x 6.85 x 17.0 in	--	3.29	2.7	11.22
ADXV-H-AAI	2.95 lbs	1.3 x 6.85 x 17.0 in	--	16.79	15.43	57.28
ADXV-H-RACK	4.2 lbs	19.0 x 1.73 x 19.0 in	1U	--	--	--

Specifications are subject to change without notice. ©2023 Advanced RF Technologies, Inc.

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Version 0.8 (updated on 08/04/2023)

Mid Power Remote (MPR) Modules						
ADXV-R-CHA	15.43 lbs	19.0 x 7.0 x 15.0 in	4U	--	--	--
ADXV-R-CHA-3	7.50 lbs	9.22 x 7.0 x 15.0 in	--	--	--	--
ADXV-R-CHA-SG	2.20 lbs	19.2 x 7.0 x 2.8 in	--	--	--	--
ADXV-R-RACK	7.40 lbs	19.0 x 2.6 x 13.8 in	1.5U	--	--	--
ADXV-R-FAN-DC	3.33 lbs	17.1 x 6.9 x 3.5 in	--	10.00	9.00	34.12
ADXV-R-PSU-AC	8.81 lbs	2.3 x 6.85 x 13.8 in	--	4.70	0.94	16.03
ADXV-R-PSU-DC	8.81 lbs	2.3 x 6.85 x 13.8 in	--	--	2.88	9.82
ADXV-R-ORU	8.81 lbs	2.3 x 6.85 x 13.8 in	--	11.27	7.18	38.45
ADXV-R-ORU-X	8.81 lbs	2.3 x 6.85 x 13.8 in	--	12.06	7.97	41.15
ADXV-R-25VU-N4X	26.5 lbs	9.85 x 15.0 x 6.6 in	--	66.06	51.60	225.40
ADXV-R-3378P-N4X	26.5 lbs	9.85 x 15.0 x 6.6 in	--	60.19	47.04	205.37
ADXV-R-336	9.92 lbs	2.3 x 6.85 x 13.8 in	--	49.61	38.18	169.27
ADXV-R-337APT	8.62 lbs	2.3 x 6.85 x 13.8 in	--	43.38	32.26	148.01
ADXV-R-337FN	11.7 lbs	3.3 x 6.85 x 13.8 in	--	39.76	29.95	135.66
ADXV-R-337F	9.92 lbs	2.3 x 6.85 x 13.8 in	--	46.27	34.18	157.87
ADXV-R-33S8C	9.92 lbs	2.3 x 6.85 x 13.8 in	--	41.51	30.34	141.63
ADXV-R-33S8	9.92 lbs	2.3 x 6.85 x 13.8 in	--	49.14	38.22	167.67
ADXV-R-339P	9.92 lbs	2.3 x 6.85 x 13.8 in	--	49.14	38.22	167.67
ADXV-R-37P	9.92 lbs	2.3 x 6.85 x 13.8 in	--	55.61	43.06	189.74
ADXV-R-37A	9.92 lbs	2.3 x 6.85 x 13.8 in	--	54.73	41.89	186.74
ADXV-R-37W	9.92 lbs	2.3 x 6.85 x 13.8 in	--	50.68	41.26	172.92
ADXV-R-33BTF	9.92 lbs	2.3 x 6.85 x 13.8 in	--	56.54	43.45	192.92
ADXV-R-37B	9.92 lbs	2.3 x 6.85 x 13.8 in	--	63.00	52.00	214.96
ADXV-R-37N77L	11.7 lbs	4.6 x 6.85 x 13.8 in	--	75.00	43.00	255.91
ADXV-R-37N77H	11.7 lbs	4.6 x 6.85 x 13.8 in	--	75.00	43.00	255.91
High Power Remote (HPR) Modules						
ADXV-HPR-CHA	17.6 lbs	19.0 x 10.5 x 15.0 in	6U	--		--
ADXV-HPR-RACK	7.53 lbs	19.0 x 3.47 x 13.8 in	2U	--		--
ADXV-HPR-PMK	43.5 lbs	13.4 x 52.8 x 13.8 in	--	--		--
ADXV-HPR-PSU-AC	13.5 lbs	2.36 x 10.3 x 17.8 in	--	27.8	--	94.85
ADXV-HPR-PSU-AC-50	13.5 lbs	2.36 x 10.3 x 17.8 in	--	TBD	--	TBD
ADXV-HPR-PSU-DC	13.0 lbs	2.36 x 10.3 x 17.8 in	--	--	19.36	66.05
ADXV-HPR-PSU-DC-50	13.0 lbs	2.36 x 10.3 x 17.8 in	--	--	TBD	TBD
ADXV-HPR-ORU	11.5 lbs	2.36 x 10.3 x 13.8 in	--	8.34	6.68	28.45
ADXV-HPR-ORU-X	11.5 lbs	2.36 x 10.3 x 13.8 in	--	10.9	7.68	TBD
ADXV-HPR-436	18.5 lbs	2.75 x 10.3 x 17.8 in	--	188.00	184.00	641.48
ADXV-HPR-437FN	19.0 lbs	2.75 x 10.3 x 17.8 in	--	198.00	189.00	675.60
ADXV-HPR-437F	19.0 lbs	2.75 x 10.3 x 17.8 in	--	195.00	186.00	665.37
ADXV-HPR-43S8C	18.5 lbs	2.75 x 10.3 x 17.8 in	--	159.57	156.31	544.47
ADXV-HPR-46P	19.0 lbs	2.75 x 10.3 x 17.8 in	--	242.51	232.95	827.48
ADXV-HPR-46A	18.5 lbs	2.75 x 10.3 x 17.8 in	--	260.62	249.91	889.27
ADXV-HPR-45W	19.0 lbs	2.75 x 10.3 x 17.8 in	--	269.00	260.00	917.87
ADXV-HPR-43BTF	18.5 lbs	2.75 x 10.3 x 17.8 in	--	225.66	218.53	769.98
ADXV-HPR-46N77L	19.0 lbs	2.75 x 10.3 x 17.8 in	--	228.3	221.04	TBD
ADXV-HPR-46N77H	19.0 lbs	2.75 x 10.3 x 17.8 in	--	228.3	221.04	TBD
Combiners / Splitters						
ADXV-R-6WS	4.4 lbs	19.0 x 0.87 x 7.88 in	0.5U	--	--	--
ADXV-R-CHC-U	12.0 lbs	19.0 x 1.73 x 10.8 in	1U	--	--	--
ADXV-R-CHC-X	18.5 lbs	19.0 x 1.73 x 11.4 in	1U	--	--	--
ADXV-R-CHC-X2	18.5 lbs	19.0 x 1.73 x 11.4 in	1U	--	--	--
ADXV-HPR-CHC-U	14.86 lbs	11.0 x 9.44 x 2.8 in	--	--	--	--
ADXV-HPR-CHC-U-LH	15.43 lbs	11.0 x 9.44 x 2.8 in	--	--	--	--
ADXV-HPR-CHC-X	15.2 lbs	11.3 x 10.3 x 2.8 in	--	--	--	--
Optical Expansion Units						
ADXV-R-OEU-8	15.4 lbs	19.0 x 3.5 x 13.9 in	2U	28.00	24.00	95.54
ADXV-R-OEU-8-X	15.4 lbs	19.0 x 3.5 x 13.9 in	2U	28.00	24.00	95.54
ADXV-R-ADP	1.8 lbs	5.8 x 3.0 x 1.7 in	--	--	--	--

Version 0.8 (updated on 08/04/2023)

ORDERING INFORMATION

- **HE Equipment**

Part Name	Frequency Band	Description
ADXV-H-NMS-AC	--	ADX V DAS Head End Chassis + Network Management System + AC Power Supply Unit
ADXV-H-NMS-DC	--	ADX V DAS Head End Chassis + Network Management System + DC Power Supply Unit
ADXV-H-ODU-4	VHF to BRS	ADX V DAS Head End Optical Donor Unit Module (4 Ports)
ADXV-H-ODU-4-X	VHF to C-Band	ADX V DAS Head End Optical Donor Unit Module (4 Ports)
ADXV-H-ODU-1	VHF to BRS	ADX V DAS Head End Optical Donor Unit Module (1 Port)
ADXV-H-POI-6	600 MHz	ADX V DAS Head End Point of Interface Module 600 MHz (0-48dBm)
ADXV-H-POI-7APT	700 MHz APT	ADX V DAS Head End Point of Interface Module 700 MHz APT (0-48dBm)
ADXV-H-POI-7L	700 MHz Lower A, B, C	ADX V DAS Head End Point of Interface Module 700 MHz Lower A, B, C (0-48dBm)
ADXV-H-POI-7U	700 MHz Upper C +	ADX V DAS Head End Point of Interface Module 700 MHz Upper C + B14 (0-48dBm)
ADXV-H-POI-S8C	SMR800 + Cell	ADX V DAS Head End Point of Interface Module SMR800 (Commercial) + Cellular (0-48dBm)
ADXV-H-POI-P	PCS	ADX V DAS Head End Point of Interface Module PCS (0-48dBm)
ADXV-H-POI-A	AWS-1 + AWS-3	ADX V DAS Head End Point of Interface Module AWS-1 + AWS-3 (0-48dBm)
ADXV-H-POI-W	WCS	ADX V DAS Head End Point of Interface Module WCS (0-48dBm)
ADXV-H-POI-BTF	BRS (TD-LTE/5GNR)	ADX V DAS Head End Point of Interface Module BRS TD-LTE/5GNR (0-48dBm)
ADXV-H-POI-B	BRS (FDD-LTE)	ADX V DAS Head End Point of Interface Module BRS FDD-LTE (0-48dBm)
ADXV-H-POI-N77L	C-Band (Low)	ADX V DAS Head End Point of Interface Module C-Band (0-46dBm)
ADXV-H-POI-N77H	C-Band (High)	ADX V DAS Head End Point of Interface Module C-Band (0-46dBm)
ADXV-H-POIL-VU	VHF / UHF	ADX V DAS Head End Low Power Point of Interface Module VHF/UHF (0-25dBm)
ADXV-H-POIL-78P	700/800 MHz PS	ADX V DAS Head End Low Power Point of Interface Module Public Safety 700/800 MHz (0-25dBm)
ADXV-H-POIL-S8	800 MHz PS+ SMR800	ADX V DAS Head End Low Power Point of Interface Module Public Safety 800 MHz (0-25dBm)
ADXV-H-POIL-9P	900MHz + Paging	ADX V DAS Head End Point of Interface Module 900MHz + Paging (0-25dBm)
ADXV-H-POIL-B	BRS (FDD-LTE)	ADX V DAS Head End Low Power Point of Interface Module BRS FDD-LTE (0-25dBm)
ADXV-H-CHC-88-DL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Downlink (8 Inputs + 8 Outputs)
ADXV-H-CHC-88-UL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Uplink (8 Inputs + 8 Outputs)
ADXV-H-CHC-88-DL-X	600MHz to C-Band	ADX V DAS Head End Channel Combiner Module for Downlink (8 Inputs + 8 Outputs)
ADXV-H-CHC-88-UL-X	600MHz to C-Band	ADX V DAS Head End Channel Combiner Module for Uplink (8 Inputs + 8 Outputs)
ADXV-H-CHC-44M-DL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Downlink [2 * (4 Inputs + 4 Outputs)] (for MIMO)
ADXV-H-CHC-44M-UL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Uplink [2 * (4 Inputs + 4 Outputs)] (for MIMO)
ADXV-H-CHC-168-DL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Downlink (16 Inputs + 8 Outputs)
ADXV-H-CHC-168-UL	600MHz to BRS	ADX V DAS Head End Channel Combiner Module for Uplink (8 Inputs + 16 Outputs)
ADXV-H-CHC-168-DL-X	600MHz to C-Band	ADX V DAS Head End Channel Combiner Module for Downlink (16 Inputs + 8 Outputs)
ADXV-H-CHC-168-UL-X	600MHz to C-Band	ADX V DAS Head End Channel Combiner Module for Uplink (8 Inputs + 16 Outputs)
ADXV-H-RACK	--	ADX V DAS Head End 19" 1U Rack supporting up to 2 ODU, CHC-88, or CHC-44M
ADXV-H-AAI	--	ADX V DAS Head End Auxiliary Alarm Interface Module (supports 1 HE / 4 RU / 6 Inputs)

- RU Equipment

Part Name	Frequency Band	Description
Mid Power Remote Modules		
ADXV-R-CHA	--	ADX V DAS Remote Unit Chassis (supports 7 RU Modules) (rack or wall mountable)
ADXV-R-CHA-3	--	ADX V DAS Remote Unit Chassis (supports 3 RU Modules) (rack or wall mountable)
ADXV-R-CHA-SG	--	ADX V DAS Remote Unit Chassis Safety Guard
ADXV-R-RACK	--	ADX V DAS Remote Unit 19" Rack (supports 2 RU Modules)
ADXV-R-FAN-DC	--	ADX V DAS Remote Unit Fan (required with more than 4 RAM)
ADXV-R-PSU-AC	--	ADX V DAS Remote Unit AC Power Supply Unit Module w/ 24V DC Output
ADXV-R-PSU-DC	--	ADX V DAS Remote Unit DC Power Supply Unit Module
ADXV-R-ORU	600MHz to BRS	ADX V DAS Remote Unit Optical Remote Unit Module
ADXV-R-ORU-X	600MHz to C-Band	ADX V DAS Remote Unit Optical Remote Unit Module
ADXV-R-25VU-N4X	VHF/UHF	ADX V DAS Remote Unit Public Safety VHF/UHF 25dBm Amplifier Module
ADXV-R-3378P-N4X	700/800 MHz PS	ADX V DAS Remote Unit Public Safety 700/800 MHz 33dBm Amplifier Module
ADXV-R-336	600 MHz	ADX V DAS Remote Unit 600 MHz 33dBm Amplifier Module
ADXV-R-337APT	700 MHz APT	ADX V DAS Remote Unit 700 MHz APT 33dBm Amplifier Module
ADXV-R-337FN	700 MHz + B14	ADX V DAS Remote Unit 700 MHz Lower A/B/C + Upper C + B14 33dBm Amplifier Module
ADXV-R-337F	700 MHz	ADX V DAS Remote Unit 700 MHz Lower A/B/C + Upper C 33dBm Amplifier Module
ADXV-R-33S8	800 MHz PS	ADX V DAS Remote Unit Public Safety 800 MHz 33dBm Amplifier Module
ADXV-R-33S8C	SMR800 + Cell	ADX V DAS Remote Unit SMR800 (Commercial) + Cellular 33dBm Amplifier Module
ADXV-R-339P	900 MHz + Paging	ADX V DAS Remote Unit 900 MHz + Paging
ADXV-R-37P	PCS	ADX V DAS Remote Unit PCS 37dBm Amplifier Module
ADXV-R-37A	AWS-1 + AWS-3	ADX V DAS Remote Unit AWS-1 + AWS-3 37dBm Amplifier Module
ADXV-R-37W	WCS	ADX V DAS Remote Unit WCS 37dBm Amplifier Module
ADXV-R-33BTF	BRS (TD-LTE/5GNR)	ADX V DAS Remote Unit BRS (TD-LTE/5GNR) 33dBm Amplifier Module w/ 194MHz Support
ADXV-R-37B	BRS (FDD-LTE)	ADX V DAS Remote Unit BRS (FDD-LTE) 37dBm Amplifier Module
ADXV-R-37N77L	C-Band (Low)	ADX V DAS Remote Unit C-Band (5GNR) 37dBm Amplifier Module
ADXV-R-37N77H	C-Band (High)	ADX V DAS Remote Unit C-Band (5GNR) 37dBm Amplifier Module
High Power Remote (HPR) Modules		
ADXV-HPR-CHA	--	ADX V DAS High Power Remote Chassis (supports 6 HPR Modules) (rack or wall mountable)
ADXV-HPR-RACK	--	ADX V DAS High Power Remote 19" Rack (supports 1 HPR Module)
ADXV-HPR-PMK	--	ADX V DAS High Power Remote Pole Mount Kit (supports 8 HPR Modules + HPR-CHC)
ADXV-HPR-PSU-AC	--	ADX V DAS High Power Remote AC Power Supply Unit Module
ADXV-HPR-PSU-AC-50	--	ADX V DAS High Power Remote AC Power Supply Unit Module w/ 50V DC Output
ADXV-HPR-PSU-DC	--	ADX V DAS High Power Remote DC Power Supply Unit Module
ADXV-HPR-PSU-DC-50	--	ADX V DAS High Power Remote DC Power Supply Unit Module w/ 50V DC Output
ADXV-HPR-ORU	VHF to BRS	ADX V DAS High Power Remote Optical Remote Unit Module
ADXV-HPR-ORU-X	VHF to C-Band	ADX V DAS High Power Remote Optical Remote Unit Module
ADXV-HPR-436	600 MHz	ADX V DAS High Power Remote 600 MHz 43dBm Amplifier Module
ADXV-HPR-437FN	700 MHz + B14	ADX V DAS High Power Remote 700 MHz Lower A/B/C + Upper C + B14 43dBm Amplifier Module
ADXV-HPR-437F	700 MHz	ADX V DAS High Power Remote 700 MHz Lower A/B/C + Upper C 43dBm Amplifier Module
ADXV-HPR-43S8C	SMR800 + Cell	ADX V DAS High Power Remote SMR800 (Commercial) + Cellular 43dBm Amplifier Module
ADXV-HPR-46P	PCS	ADX V DAS High Power Remote PCS 46dBm Amplifier Module
ADXV-HPR-46A	AWS-1 + AWS-3	ADX V DAS High Power Remote AWS-1 + AWS-3 46dBm Amplifier Module
ADXV-HPR-45W	WCS	ADX V DAS High Power Remote WCS 45dBm Amplifier Module
ADXV-HPR-43BTF	BRS (TD-LTE/5GNR)	ADX V DAS High Power Remote BRS (TD-LTE/5GNR) 43dBm Amplifier Module w/ 194MHz Support
ADXV-HPR-46N77L	C-Band (Low)	ADX V DAS High Power Remote C-Band (5GNR) 46dBm Amplifier Module
ADXV-HPR-46N77H	C-Band (High)	ADX V DAS High Power Remote C-Band (5GNR) 46dBm Amplifier Module
Combiners / Splitters		
ADXV-R-6WS	600MHz to C-Band	ADX V DAS Remote Unit 6-Way Splitter
ADXV-R-CHC-U	700MHz to BRS	ADX V DAS Remote Unit/High Power Remote Universal Channel Combiner (700 MHz, SMR800 + Cellular,
ADXV-R-CHC-X	600MHz to CBRS	ADX V DAS Remote Unit/High Power Remote Universal Channel Combiner (600MHz, 700 MHz, SMR800
ADXV-R-CHC-X2	600MHz to C-Band	ADX V DAS Remote Unit/High Power Remote Universal Channel Combiner (600MHz, 700 MHz, SMR800
ADXV-HPR-CHC-U	700MHz to BRS	ADX V DAS Remote Unit/High Power Remote Universal Channel Combiner (700 MHz, SMR800 + Cellular,
ADXV-HPR-CHC-LH	700MHz to BRS	ADX V DAS Remote Unit/High Power Remote Low/High Universal Channel Combiner (700 MHz, SMR800
ADXV-HPR-CHC-X	600MHz to CBRS	ADX V DAS Remote Unit/High Power Remote Universal Channel Combiner (600MHz, 700 MHz, SMR800
Optical Expansion Units		
ADXV-R-OEU-8	VHF to BRS	ADX V DAS Optical Expansion Unit (supports 8 Remote Units)
ADXV-R-OEU-8-X	VHF to C-Band	ADX V DAS Optical Expansion Unit (supports 8 Remote Units)
ADXV-R-ADP	--	Power adapter for ADXV-R-OEU-8 / ADXV-R-OEU-8-X