ANYWAVE ACT-LPTV Series
UHF Transmitter Family
For TV

Performance and Design without compromise...

Flexible+
Efficient+
Reliable+

ANYWAVE COMMUNICATION TECHNOLOGIES
Overview

The new Anywave ACT-X family of UHF TV transmitters provides the broadcaster with the latest state of the art digital transmitter design. The ACT-X family delivers the highest levels of performance and reliability without costing you extra. It’s streamline and efficient design offers outstanding configuration flexibility and exceptional operating convenience within a small footprint. From small family owned stations to large international networks, the ACT-X family delivers high performing cost effective solutions without compromise. These convection air cooled Solid State (50V LDMOS technology) transmitters range in output power from 2W ATSC (1W OFDM) to 560kW ATSC (400W OFDM). They operate across all modulation standards including ATSC, ATSC-M/H, DVB-T, DVB-T2, DVB-H, ISDB-T and ISDB-Tb. The ACT-X transmitter family incorporates the powerful correction capabilities of the ACT 5X and 9X digital exciter platforms. The ACT digital exciter offers the most advanced and highest performing correction technology in the world. The exciters powerful ADPC™ (Adaptive Digital Pre-Correction) algorithm and patented multi-dimensional pre-correction technology delivers RF Performance Metrics (SNR/MER and Shoulder) never before realized.

The ACT-X transmitter is easily configured to operate as a standard transmitter or as an RF translator supporting A/53, A/153 (MH), and A/110:2011 (SFN) ATSC standards.

Innovative DDRF™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance with shoulder levels exceeding -60 dB and out of band spurious also greater than -60 dB, all based on an ultra low noise floor.

Independent feedback for adaptive SWR optimization function maximizes emission signal quality after the transmitter band-pass filters (BPF). System level AGC (Auto Gain Control) function includes both RF and DC AGC feedback obtaining a stable output power and performance.

The Transmitter includes a digital ultra-wideband phase noise processing technology that automatically detects and compensates phase noise to achieve unparalleled performance. The patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at the RF Output. The front panel of the transmitter includes a user friendly graphical display for control and status monitoring including a real time measurement and display of the shoulder levels and SNR of the transmitted signal. This control interface provides a quick guide to the operation of the entire transmitter including a real-time temperature display, an over temperature alarm, and the individual voltage and current readings of all the amplifier transistors.
ANYWAVE ACT-LPTV Series
UHF Transmitter Family
For TV

Features and Benefits

- Flexible
  - Multiple standards and inputs; RF, IP, ASI and SMPTE310*
  - Simple to change from Analog to Digital or from one digital standard to another

- Efficient
  - Latest transistor technology
  - High Power Density

- Reliable
  - Redundant fans, power supplies and exciters (optional)

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<td>1</td>
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<tr>
<td><strong>Output Power (RMS) for ATSC and ATSC M/H Power</strong></td>
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<td>1760W</td>
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<td>3080W</td>
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</table>

* SMPTE 310 input only available with 9X exciter

(1) After band pass filter
(2) After four cavity band pass filter
(3) Does not include the band pass filter.

While Anywave attempts to provide the most up to date and accurate information certain specifications may change without prior notification. For details please contact your local Anywave expert, or e-mail sales@Anywavecom.com
Overview

The Anywave ACT-XU/V-2-C ATSC 2W DTV transmitter consists of the ACT-5X or 9X digital exciter, the ACT-2W power amplifier, and a 20W 6-pole BPF. The exciter front panel LCD provides local control and monitoring of the system while a built-in web interface provides remote TX management.

Key Features

- Simple, Cost-effective, High-Performing, Professional solution for UHF and VHF LPTV ATSC Transmitter or RF Translator applications (supports A/53, A/153 standards), specify with order.
- Incorporating Powerful ADPC™ (Adaptive Digital Pre-Correction) patented multi-dimensional pre-correction and precision demodulation technology
- Innovative DDRF™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance: MER > 36 dB, shoulder levels < -55 dB, out of band spurious < -60 dB and ultra low noise floor
- Patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at RF Output
- Built-in continuous, automatic and real time measurement and display of shoulder level and SNR of transmitted signal
## Product Specifications

### Exciter

**Signal Inputs**
- TS Inputs: 2 Transport Stream with loop out, DVB-ASI only  
- Connector: BNC female 75 Ω  
- RF Input: Frequency: VHF or UHF  
  - Bandwidth: 6 MHz  
  - Connector: BNC female 50 Ω  
  - Level: -85 dBm ~ -15 dBm  
  - AWGN TOV: ≤ 16 dB (A/53 operation)  
  - Equalization Range (-1 μs ~ 0 μs): ≤ -2 dB  
  - Equalization Range (0 μs ~ 17 μs): ≤ -3 dB  
  - Adjacent Channel Rejection (N ± 1): > 30 dB

**Signal Processing**
- Bandwidth: 6 MHz  
- Supported Mode: ATSC  
- Network Mode: MFN

**RF Output**
- Connector (RF Out): N-Type female 50 Ω  
- Frequency: VHF/UHF in steps of 1 Hz, spectrum shifting up to ± 50 KHz  
- Level: -25 dBm ~ +5 dBm in steps of 0.05 dB  
- Level Stability: < ±0.1 dB  
- Frequency Stability: < 0.5 x 10^-7 (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy  
- Symbol Rate: 10.762238 MHz  
- MER: > 40dB  
- Amplitude Flatness: < ±0.5 dB  
- IMD Shoulder Level (± 500KHz): < -60 dB  
- Out of Band Spurious: < -60 dB  
- Pilot Amplitude Error: < ±0.1 dB  
- Return Loss: > 15 dB  
- Phase Noise (@20 kHz): < -107 dBc/Hz

**Reference Clock**
- Internal 10MHz  
  - Frequency Stability: < ±0.05 ppm  
  - Aging: < ±0.05 ppm/year  
  - Output level: 0 dBm ± 3 dB  
- External 10MHz  
- Input Level: AC coupled V (p-p) > 300 mV  
- Input Connector: BNC female 50 Ω  

### Power Amplifier

**RF Input**
- Frequency: VHF / UHF  
- Rated Input Power: -3 dBm ± 1 dB @ 2 W  
- Connector: 1/2” N-type female 50 Ω

**RF Output**
- Frequency: UHF / VHF  
- Rated Output Power: 2 W (ATV), 2 W (ATSC), 1 W (OFDM)  
- Gain: 36 dB ± 1 dB  
- Connector: 1/2” N-type female 50 Ω  
- Shoulder Level: < -40 dB w/o pre-correction @ 2W  
- VSWR: < 1.5

**RF Monitoring (coupled RF Output)**
- Connector: BNC female 50 Ω  
- Rated Power: -11 dBm ± 2 dB @ 2 W

### Other
- Power Supply: 88 ~ 264 VAC, 50/60Hz  
- Operating Temperature: 0°C ~ 50°C (+32°F~+122°F)  
- Operating Humidity: ≤ 95%  
- Size: 1 RU, 19” Wide  
- Weight: 10 LBS (net) / 15 LBS (gross)
Overview

The Anywave ACT-XU/V-20-C ATSC 20W DTV transmitter consists of the ACT-5X or 9X digital exciter, the ACT-20W power amplifier, and a 100W 6-pole BPF. The exciter front panel LCD provides local control and monitoring of the system while a built-in web interface provides remote TX management.

Key Features

- Simple, Cost-effective, High-Performing, Professional solution for UHF and VHF LPTV ATSC Transmitter or RF Translator applications (supports A/53, A/153 standards), specify with order
- Incorporating Powerful ADPC™ (Adaptive Digital Pre-Correction) patented multi-dimensional pre-correction and precision demodulation technology
- Innovative DDRE™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance: MER > 36 dB, shoulder levels < -55 dB, out of band spurious < -60 dB and ultra low noise floor
- Patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at RF Output
- Built-in continuous, automatic and real time measurement and display of shoulder level and SNR of transmitted signal
### Exciter

**Signal Inputs**
- **TS Inputs:** 2 Transport Stream with loop out, DVB-ASI only  
  Connector: BNC female 75 Ω  
- **RF Input:** Frequency: VHF or UHF  
  Bandwidth: 6 MHz  
  Connector: BNC female 50 Ω  
  Level: -85 dBm ~ -15 dBm  
  AWGN TOV: ≤ 16 dB (A/53 operation)  
  Equalization Range (-1 μs ~ 0 μs): ≤ -2 dB  
  Equalization Range (0 μs ~ 17 μs): ≤ -3 dB  
  Adjacent Channel Rejection (N ± 1): > 30 dB

**Signal Processing**
- Bandwidth: 6 MHz  
- Supported Mode: ATSC  
- Network Mode: MFN

**RF Output**
- Connector (RF Out): N-Type female 50 Ω  
- Frequency: VHF/UHF in steps of 1 Hz, spectrum shifting up to ± 50 KHz  
- Level: -25 dBm ~ +5 dBm in steps of 0.05 dB  
- Level Stability: < ±0.1 dB  
- Frequency Stability: < 0.5 x 10^-7 (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy  
- Symbol Rate: 10.762238 MHz  
- MER: > 40dB  
- Amplitude Flatness: < ±0.5 dB  
- IMD Shoulder Level (± 500KHz): < -60 dB  
- Out of Band Spurious: < -60 dB  
- Pilot Amplitude Error: < ±0.1 dB  
- Return Loss: > 15 dB  
- Phase Noise (@20 kHz): < -107 dBc/Hz

**Reference Clock**
- Internal 10MHz  
  - Frequency Stability: < ±0.05 ppm  
  - Aging: < ±0.05 ppm/year  
  - Output level: 0 dBm ± 3 dB  
- External 10MHz  
  - Input Level: AC coupled V (p-p) > 300 mV  
  - Input Connector: BNC female 50 Ω  
- External 1PPS  
  - Input Level: TTL  
  - Input Connector: BNC female 50 Ω

### Power Amplifier

**RF Input**
- Frequency: VHF / UHF  
- Rated Input Power: -11 dBm ± 1 dB @ 25 W  
- Connector: 1/2” N-type female 50 Ω

**RF Output**
- Frequency: UHF / VHF  
- Rated Output Power: 30 W (ATV), 25 W (ATSC), 15 W (OFDM)  
- Gain: 54 dB ± 1 dB  
- Connector: 1/2” N-type female 50 Ω  
- Shoulder Level: < -36 dB w/o pre-correction  
- VSWR: ≤ 1.5

**RF Monitoring (coupled RF Output)**
- Connector: BNC female 50 Ω  
- Rated Power: -10 dBm ± 1.5 dB @ 25 W

**Other**
- Power Supply: 90 ~ 264 VAC, 47 Hz ~ 63 Hz  
- Operating Temperature: -10° C ~ +60° C (+14° F ~ +140° F), forced air cooling  
- Operating Humidity: 20% ~ 90% (non-condensing)  
- Atmospheric Pressure: 86 kPa ~ 106 kPa  
- Size: 19” W x 1.75” H 19.3” D  
- Weight: 13 LBS  
- Power consumption (full power): 176 W @ 25 W output (0.8 A/220 V)
Overview

The Anywave ACT-5U/V-140-A-C ATSC 140W DTV transmitter consists of the ACT-5X or 9X digital exciter, the ACT-140W power amplifier, and a 200W 6-pole BPF. The exciter front panel LCD provides local control and monitoring of the system while a built-in web interface provides remote TX management.

Key Features

• Simple, Cost-effective, High-Performing, Professional solution for UHF and VHF LPTV ATSC Transmitter or RF Translator applications (supports A/53, A/153 standards), specify with order
• Incorporating Powerful ADPC™ (Adaptive Digital Pre-Correction) patented multi-dimensional pre-correction and precision demodulation technology
• Innovative DDRF™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance: MER > 36 dB, shoulder levels < -55 dB, out of band spurious < -60 dB and ultra low noise floor
• Patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at RF Output
• Built-in continuous, automatic and real time measurement and display of shoulder level and SNR of transmitted signal

R & L Media Systems * rick@rlmediasystems.com
### Exciter

**Signal Inputs**
- TS Inputs: 2 Transport Stream with loop out, DVB-ASI only
  - Connector: BNC female 75 Ω
- RF Input: Frequency: VHF or UHF
  - Bandwidth: 6 MHz
  - Connector: BNC female 50 Ω
  - Level: -85 dBm ~ -15 dBm
  - AWGN TOV: ≤ 16 dB (A/53 operation)
  - Equalization Range (-1 μs ~ 0 μs): ≤ -2 dB
  - Equalization Range (0 μs ~ 17 μs): ≤ -3 dB
  - Adjacent Channel Rejection (N ± 1): > 30 dB

**Signal Processing**
- Bandwidth: 6 MHz
- Supported Mode: ATSC
- Network Mode: MFN

**RF Output**
- Connector (RF Out): N-Type female 50 Ω
- Frequency: VHF/UHF in steps of 1 Hz, spectrum shifting up to ± 50 KHz
- Level: -25 dBm ~ +5 dBm in steps of 0.05 dB
- Level Stability: < ±0.1 dB
- Frequency Stability: < 0.5 x 10^-7 (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy
- Symbol Rate: 10.762238 MHz
- MER: > 40dB
- Amplitude Flatness: < ±0.5 dB
- IMD Shoulder Level (± 500KHz): < -60 dB
- Out of Band Spurious: < -60 dB
- Pilot Amplitude Error: < ±0.1 dB
- Return Loss: > 15 dB
- Phase Noise (@20 kHz): < -107 dBc/Hz

**Reference Clock**
- Internal 10MHz
  - Frequency Stability: < ±0.05 ppm
  - Aging: < ±0.05 ppm/year
  - Output level: 0 dBm ± 3 dB
- External 10MHz
  - Input Level: AC coupled V (p-p) > 300 mV
  - Input Connector: BNC female 50 Ω

**Power Amplifier**

**RF Input**
- Frequency: VHF / UHF
- Rated Input Power: 1 dBm ± 1 dB @ 140 W
- Connector: 1/2” N-type female 50 Ω

**RF Output**
- Frequency: UHF / VHF
- Rated Output Power: 200 W (ATV), 140 W (ATSC), 100 W (OFDM)
- Gain: 50 dB ± 1 dB
- Connector: 1/2” N-type female 50 Ω
- Shoulder Level: < -30 dB w/o pre-correction
- VSWR: ≤ 1.5

**RF Monitoring (coupled RF Output)**
- Connector: BNC female 50 Ω
- Rated Power: +1 dBm ± 3 dB @ 140 W

**Other**
- Power Supply: 88 ~ 264 VAC, 50/60Hz
- Operating Temperature: 0° C ~ 50° C (+32°F~+122°F)
- Operating Humidity: ≤ 95%
- Size: 1 RU, 19” Wide
- Weight: 10 LBS (net) / 15 LBS (gross)
Overview

The Anywave ACT-5XU/V-280-A-C ATSC 280W DTV transmitter consists of the ACT-5X or 9X digital exciter, the ACT-280W power amplifier, and a 400W 6-pole BPF. The exciter front panel LCD provides local control and monitoring of the system while a built-in web interface provides remote TX management.

Key Features

- Simple, Cost-effective, High-Performing, Professional solution for UHF and VHF LPTV ATSC Transmitter or RF Translator applications (supports A/53, A/153 standards), specify with order
- Incorporating Powerful ADPC™ (Adaptive Digital Pre-Correction) patented multi-dimensional pre-correction and precision demodulation technology
- Innovative DDRE™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance: MER > 36 dB, shoulder levels < -55 dB, out of band spurious < -60 dB and ultra low noise floor
- Patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at RF Output
- Built-in continuous, automatic and real time measurement and display of shoulder level and SNR of transmitted signal
### Product Specifications

### Exciter

**Signal Inputs**
- **TS Inputs:** 2 Transport Stream with loop out, DVB-ASI only  
  Connector: BNC female 75 Ω  
- **RF Input:** Frequency: VHF or UHF  
  Bandwidth: 6 MHz  
  Connector: BNC female 50 Ω  
  Level: -85 dBm ~ -15 dBm  
  AWGN TOV: ≤ 16 dB (A/53 operation)  
  Equalization Range (-1 μs ~ 0 μs): ≤ -2 dB  
  Equalization Range (0 μs ~ 17 μs): ≤ -3 dB  
  Adjacent Channel Rejection (N ± 1): > 30 dB

**Signal Processing**
- **Bandwidth:** 6 MHz  
- **Supported Mode:** ATSC  
- **Network Mode:** MFN

**RF Output**
- **Connector (RF Out):** N-Type female 50 Ω  
- **Frequency:** VHF/UHF in steps of 1 Hz, spectrum shifting up to ± 50 KHz  
- **Level:** -25 dBm ~ +5 dBm in steps of 0.05 dB  
- **Level Stability:** < ±0.1 dB  
- **Frequency Stability:** < 0.5 x 10^-7 (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy  
  - **Symbol Rate:** 10.762238 MHz  
  - **MER:** > 40dB  
  - **Amplitude Flatness:** < ±0.5 dB  
  - **IMD Shoulder Level (± 500KHz):** < -60 dB  
  - **Out of Band Spurious:** < -60 dB  
  - **Pilot Amplitude Error:** < ±0.1 dB  
  - **Return Loss:** > 15 dB  
  - **Phase Noise (@20 kHz):** < -107 dBc/Hz

**Reference Clock**
- **Internal 10MHz**  
  - **Frequency Stability:** < ±0.05 ppm  
  - **Aging:** < ±0.05 ppm/year  
  - **Output level:** 0 dBm ± 3 dB  
- **External 10MHz**  
  - **Input Level:** AC coupled V (p-p) > 300 mV  
  - **Input Connector:** BNC female 50 Ω

### Power Amplifier

**RF Input**
- **Frequency:** VHF / UHF  
- **Rated Input Power:** -2 dBm ± 1 dB @ 280 W  
- **Connector:** 1/2” N-type female 50 Ω

**RF Output**
- **Frequency:** VHF / UHF  
- **Rated Output Power:** 400 W (ATV), 280 W (ATSC), 200 W (OFDM)  
- **Gain:** 57 dB ± 1 dB  
- **Connector:** 7/16 DIN female 50 Ω  
- **Shoulder Level:** < -28 dB w/o pre-correction  
- **VSWR:** ≤ 1.5

**RF Monitoring (coupled RF Output)**
- **Connector:** BNC female 50 Ω  
- **Rated Power:** 0 dBm ± 3 dB @ 360 W

**Other**
- **Power Supply:** 90 ~ 300 VAC, 47 Hz ~ 63 Hz  
- **Operating Temperature:** -10° C ~ +60° C (+14°F~+122°F), forced air cooling  
- **Operating Humidity:** ≤ 90%  
- **Size:** 19” W x 7” H x 27.2” D  
- **Weight:** 84 LBS  
- **Power consumption (full power):** 1760 W @ 280 W output (8 A/220 V)  
- **Power consumption (half power):** 1100 W @ 140 W output (5 A/220 V)

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**R & L Media Systems * rick@rlmediasystems.com**
Overview

The Anywave ACT-5XU/V-560-A-C ATSC 560W DTV transmitter consists of the ACT-5X digital exciter, the ACT-560W power amplifier, and a 560W 6-pole BPF. The exciter front panel LCD provides local control and monitoring of the system while a built-in web interface provides remote TX management.

Key Features

• Simple, Cost-effective, High-Performing, Professional solution for UHF and VHF LPTV ATSC Transmitter or RF Translator applications (supports A/53, A/153 standards), specify with order
• Incorporating Powerful ADPC™ (Adaptive Digital Pre-Correction) patented multi-dimensional pre-correction and precision demodulation technology
• Innovative DDRF™ (Direct Digital RF) broadband automatic balancing technology achieves near perfect RF performance: MER > 36 dB, shoulder levels < -55 dB, out of band spurious < -60 dB and ultra low noise floor
• Patented AIM™ (Adaptive Impedance Match) technology ensures impedance matching at RF Output
• Built-in continuous, automatic and real time measurement and display of shoulder level and SNR of transmitted signal

R & L Media Systems * rick@rlmediasystems.com
**Exciter**

**Signal Inputs**
- TS Inputs: 2 Transport Stream with loop out, DVB-ASI only
  - Connector: BNC female 75 Ω
- RF Input: Frequency: VHF or UHF
  - Bandwidth: 6 MHz
  - Connector: BNC female 50 Ω
  - Level: -85 dBm ~ -15 dBm
  - AWGN TOV: ≤ 16 dB (A/53 operation)
  - Equalization Range (-1 μs ~ 0 μs): ≤ -2 dB
  - Equalization Range (0 μs ~ 17 μs): ≤ -3 dB
  - Adjacent Channel Rejection (N ± 1): > 30 dB

**Signal Processing**
- Bandwidth: 6 MHz
- Supported Mode: ATSC
- Network Mode: MFN

**RF Output**
- Connector (RF Out): N-Type female 50 Ω
- Frequency: VHF/UHF in steps of 1 Hz, spectrum shifting up to ±50 kHz
- Level: -25 dBm ~ +5 dBm in steps of 0.05 dB
- Level Stability: < ±0.1 dB
- Frequency Stability: < 0.5 x 10⁻⁷ (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy
- Symbol Rate: 10.762238 MHz
- MER: > 40 dB
- Amplitude Flatness: < ±0.5 dB
- IMD Shoulder Level (± 500KHz): < -60 dB
- Out of Band Spurious: < -60 dB
- Pilot Amplitude Error: < ±0.1 dB
- Return Loss: > 15 dB
- Phase Noise (@20 kHz): < -107 dBc/Hz

**Reference Clock**
- Internal 10MHz
  - Frequency Stability: < ±0.05 ppm
  - Aging: < ±0.05 ppm/year
  - Output level: 0 dBm ± 3 dB
- External 10MHz
  - Input Level: AC coupled V (p-p) > 300 mV
  - Input Connector: BNC female 50 Ω

**Power Amplifier**

**RF Input**
- Frequency: VHF / UHF
- Rated Input Power: 1 dBm ± 1 dB @ 560 W
- Connector: 1/2” N-type female 50 Ω

**RF Output**
- Frequency: UHF / VHF
- Rated Output Power: 800 W (ATV), 560 W (ATSC), 400 W (OFDM)
- Gain: 56 dB ± 1 dB
- Connector: 7/16 DIN female 50 Ω
- Shoulder Level: < -28 dB w/o pre-correction
- VSWR: ≤ 1.5

**RF Monitoring (coupled RF Output)**
- Connector: BNC female 50 Ω
- Rated Power: 0 dBm ± 3 dB @ 560 W

**Other**
- Power Supply: 90 ~ 300 VAC, 47 Hz ~ 63 Hz
- Operating Temperature: -10° C ~ +60° C (+14° F ~ +140° F), forced air cooling
- Operating Humidity: 20 % ~ 90 % (non-condensing)
- Atmospheric Pressure: 86 kPa ~ 106 kPa
- Size: 19” W x 8.75” H x 27.2” D
- Weight: 119 LBS
- Power consumption (full power): 3080 W @ 560 W output (14 A/220 V)
- Power consumption (half power): 2112 W @ 280 W output (9.6 A/220 V)
## Specifications

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<td><strong>Digital TV</strong></td>
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<tr>
<td>Standards</td>
<td>DVB-T, DVB-T2, DVB-H, ISDB-T, ISDB-Tb, ATSC, ATSC Mobile DTV, DTMB</td>
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<tr>
<td>ATSC</td>
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<td>ISDB-T/ISDB-Tb</td>
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<tr>
<td>DTMB</td>
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<td>2 x SMPTE310M or 2 x ASI, 75 Ω BNC, 2 x RJ-45</td>
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<tr>
<td></td>
<td>2 x BTS, 75 Ω BNC, 2 x RJ-45</td>
</tr>
<tr>
<td></td>
<td>2 x ETI, BNC 75 Ω/high impedance, 2 x RJ-45</td>
</tr>
<tr>
<td><strong>Analog TV</strong></td>
<td></td>
</tr>
<tr>
<td>Color transmission</td>
<td>B/G, D/K, M2, N2, I, I1</td>
</tr>
<tr>
<td>Sound transmission</td>
<td>PAL, NTSC, SECAM, IRT dual-sound coding, FM single sound and NICAM728 (~13 dB/~20 dB) (optional), FM single sound (~10 dB)</td>
</tr>
<tr>
<td>Inputs</td>
<td>1 x video (75 Ω BNC), 2 x audio (XLR)</td>
</tr>
<tr>
<td><strong>General data</strong></td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>UHF bands IV/V, 470 MHz to 862 MHz</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230 V; 2 wires + PE (L1/N/PE) ± 15 %</td>
</tr>
<tr>
<td></td>
<td>400/230 V; 4 wires + PE (L1/L2/L3/N/PE); ± 15 %</td>
</tr>
<tr>
<td></td>
<td>240 V; 2 wires + PE (L1/L2/PE) ± 10 %</td>
</tr>
<tr>
<td></td>
<td>208 V; 4 wires + PE (L1/L2/L3/N/PE) ± 10 %</td>
</tr>
<tr>
<td>Max. installation altitude</td>
<td>&gt; 2000m on request</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>2000 m above sea level</td>
</tr>
<tr>
<td>Relative humidity (max.)</td>
<td>+1 °C to +45 °C</td>
</tr>
<tr>
<td>Synchronization</td>
<td>95 %, non-condensing</td>
</tr>
<tr>
<td>Reference frequency</td>
<td>10 MHz, 0.3 V to 5 V (Vpp) or TTL, BNC</td>
</tr>
<tr>
<td>Reference pulse</td>
<td>1 Hz, TTL, BNC</td>
</tr>
<tr>
<td><strong>Operation</strong></td>
<td></td>
</tr>
<tr>
<td>Display unit with touchscreen and LEDs</td>
<td>local operation and display</td>
</tr>
<tr>
<td>Ethernet interface, RJ-45</td>
<td>local, remote, standard web browser</td>
</tr>
<tr>
<td>Parallel remote interface</td>
<td>network management interface via SNMP</td>
</tr>
<tr>
<td></td>
<td>floating contacts for messages and commands</td>
</tr>
</tbody>
</table>

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While Anywave attempts to provide the most up to date and accurate information certain specifications may change without prior notification. For details please contact your local Anywave expert, or e-mail sales@Anywavecom.com
Ordering Information

Nomenclature

ACT-XU-400-A-L-DD

- Single Drive or Dual Drive (Exciter)
- Convection Cooled or Liquid Cooled
- ATSC - DVB-T2 - ISDB-T
- Power level in Watts
- Series and Band (UHF / VHF)

Anywave Communication Technologies

Single Drive or Dual Drive
SD / DD

Convection Cooled or Liquid Cooled
Convection cooled only

ATSC - DVB-T2 - ISDB-T
ATSC , DVB-T2 or ISDB-T

Power level in Watts
2, 20, 75, 140, 280, 560 (ATSC)
1, 15, 50, 100, 200, 400 (OFDM)

Series and Band (UHF / VHF)
UHF only

OPTIONS
Mobile Handheld (MH), OFDM or SFN 9X Exciter
Translator 5X Exciter

Your local Anywave expert will help you determine the optimum solution for your requirements.
To find the nearest Anywave representative contact sales@anywavecom.com