Maxiva™ ULX-OP / VLX-OP Product Overview

We did it again. GatesAir has once again shattered the expectations of what is possible with high-power, solid-state transmitters in terms of efficiency, power density, and performance.

- Power levels from up to 44kW UHF / 43kW VHF Band III / 36kW VHF Band I
- High-efficiency broadband Doherty power amplifiers for all bands (VHF and UHF)
- Software defined modulation for future upgradeability
- Doherty amplification for highest efficiency and Maximum energy savings
- Hot-swappable power amplifiers
- Separate hot-swappable compact power supplies, 3 per PA; for 2 of 3 full power redundancy**
- Optimized for best performance using Real Time Adaptive Correction
- Innovative, High-efficiency liquid-cooling system

**Power supply redundancy per PA module
Maxiva™ ULX-OP / VLX-OP Main Features

- High power density, compact dimensions
- Power levels up to 44kW UHF / 43kW Band III, 36kW Band I (pre-filter power)
- High-efficiency broadband Doherty PA design
- Dual drive option
- Enhanced power supply redundancy
- Digital modulations: ATSC, DVB-T, DVB-T2, ISDB-T/Tb, DAB/DAB+
- Analog models also available (see Maxiva OP-AN Series brochure)
- S/W Upgradeable architecture
- Adaptive pre-correction included
- Optional high-stability GPS/GLONASS receiver
- Control system with GPIO and Web GUI
- Parallel, dual redundant pumps for each rack
- Multiple DC fans on heat exchanger – variable speed for efficiency optimization
- Automatic daily Heat Exchanger airflow reversal to eliminate debris
- Automatic coolant refill reservoir to reduce maintenance

Maxiva™ ULX-OP-44000-R42
Liqui-Cooled 44kW DTV Transmitter System
### Maxiva™ ULX-OP / VLX-OP Specifications

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<tr>
<td>VHF digital output power</td>
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<tr>
<td>VHF analogue output power</td>
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<tr>
<td>Cooling</td>
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### Modulator

**DVT-T/DVB-T2**

| Standard | | EN300744, EN302304, EN302755 V1.3.1 (DVB-T2-Lite), TS101191, TS102773, TS102034 |
| Inputs | | 4x ASI BNC (f), 75 Ohm or 2x ASI BNC (f), 75 Ohm and 2x RJ45 TS oIP 10/100/1000 Seamless switch between any input Hierarchical and not hierarchical (DVB-T) |
| FFT | | All modes available according to the standard Block Short or Normal (DVB-T2) DVB-T: Reed-Solomon (204, 188) DBT-2: BCH, LDPC |
| Code rate | | 1K (DVB-T2), 2K, 4K, 8K, 8K ext. (DVB-T2), 16K & 16K ext. (DVB-T2), 32K & 32K ext. (DVB-T2) |
| Guard Interval | | 1/32, 1/16, 1/8, 1/4, 19/256 (DVB-T2), 19/128 (DVB-T2), 1/128 (DVB-T2) |
| Constellation | | QPSK, 16QAM, 64QAM, 256QAM (DVB-T2). Rotated and non-rotated (DVB-T2) |
| MISO processing | | Supported |

**ISDB-Tb**

| Standard | | ABNT NBR 15601, ABNT NBR 15603 |
| Inputs | | 4x ASI TS/BTS BNC (f), 75 Ohm or 2x ASI TS/BTS BNS (f), 75 Ohm and 2x RJ45 TS/TS oIP 10/100/1000 Seamless switch between any input |
| FFT | | Mode 1 (2K), Mode 4K), Mode 3 (8K) |
| Code Rate | | 1/2, 2/3, 3/4 5/6 7/8 |
| Guard Interval | | 1/4, 1/8, 1/16, 1/32 |
| Hierarchical Modulations | | Up to 3 layers |
| Constellation | | QPSK, 16QAM, 64QAM |
| Time Interleaver | | Fully Supported |

### DAB/DAB+

| Standard | | EN3000401, ETS 300 799 |
| Inputs | | 4x ETI (NI[G703], NAS376[G704] or NAS592[G704]) BNC (f), 75 Ohm or 2x ETI BNC (f), 75 Ohm + 2x EDI (ETSI TS 102 693) RJ45 10/100/1000 Seamless switch between any input |
| Transmission Modes | | Mode I, II, III, IV (Automatically detected from the ETI stream, or user selectable) |
| Operation | | MFN or SFN operations |

### ATSC

| Standard | | A/53, A/110 |
| Inputs | | 4x ASI/SMPT-310M BNC (f), 75 Ohm or 2x ASI/SMPT-310M BNC (f), 75 Ohm and 2x RJ45 TS oIP 10/100/1000 Seamless switch between any input |
| Modulation | | 8-VSB |
| Input Bit Rate | | 19.39 Mbit/s |
| Bandwidth | | 6 MHz |
| Max Processing Delay | | Up to 1 second (programmable) |

### Analogue

| Standard | | B, G, D, K, M, N, I |
| Inputs | | Video BNC (f), 75 Ohm, audio Tini-QG "Mini XLR", 6 Pin (m), 600 Ohm |
| Color System | | PAL, NTSC |
| Integrated NICAM Encoder | | Available |

### Satellite Receiver (Option)

| Standard | | ETSI EN 300 421 (QPSK) (DVB-S) ETSI EN 302 307 (QPSK, 8 PSK, 16APSK) (DVB-S2) ETSI EN 50083-9 (ASI) ETSI EN 50221 (Common Interface) |
| DVB-S2 | | VCM, CCM, Multi Stream and Single Stream, Normal and Short FEC frames |
| Symbol Rate | | 1 - 45 Msym/s (DVB-S) 2 - 45 Msym/s (DVB-S2) |
| Constellation | | QPSK, 8PSK, 16APSK |
| FEC | | Automatic, all modalities available according to the standard Block short or Normal DVB-S: Reed-Solomon (204, 188) DVB-S2: BCH, LDPC |
| Roll-Off | | 0.2, 0.25, 0.35 |
| Input Connector | | F(f), 75 Ohm |
| Frequency | | L-band 930(divide symbol here)2250 MHz |
| LNB Control Voltage | | Off, +13/18 Vdc, 22kHz, 0.25 A (overload protection) |
| RF Input Level | | 40 (divide symbol) 100 db/uV (with attenuator) |
| Output Connector | | F(f), 75 Ohm |
| Modality | | 188 bytes |
| Max Input Bit Rate | | 80 Mbps (CAM limit: 72 Mbps) |
| CAM Interface | | PCMCIA DVB-CI Common Interface |
## Maxiva™ ULX-OP / VLX-OP Specifications

<table>
<thead>
<tr>
<th>CA Mode (Conditional Access)</th>
<th>Multicrypt, Simulcrypt</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Support</td>
<td>Mediaguard, Viaccess, Irdeto, Conax, BISS with professional multiprogram CAM (descrambling of up to 24 Elementary Streams) Betacrypt, Cryptoworks, Nagravision with standard consumer CAM (descrambling of up to 4 services)</td>
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<tr>
<td>GNSS (GPS/GLONASS) [Option]</td>
<td>Input Connector N (f), 50 Ohm</td>
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<td></td>
<td>Input Monitor Output 10 MHz BNC (f), 75 Ohm</td>
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<td></td>
<td>Input Monitor Output 1 PPS BNC (f), 75 Ohm</td>
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<td>Phase Noise -140 dBc/Hz @10 KHz -150 dBc/Hz @ 100 kHz</td>
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<td>Stability 1e-12 / 24 hours with disciplined OCXO</td>
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<tr>
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<td>Hold-over Stability 5 us after 5 hours (optional 1 us after 24 hours)</td>
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<tr>
<td>Mechanical</td>
<td>Rack See table on next page (other configurations are available on request)</td>
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<tr>
<td></td>
<td>Width 600 mm</td>
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<tr>
<td></td>
<td>Rack Height 36 RU rack models: 1800 mm 42 RU rack models: 2070 mm Refer to Key Features table on next page for details</td>
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<tr>
<td></td>
<td>Depth 36 RU Rack: 1000mm 42 RU Rack: 1200 mm Refer to Key Features table for details</td>
</tr>
<tr>
<td>Control</td>
<td>TFT touchscreen</td>
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<td>Web GUI</td>
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<td>GPIO</td>
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<td>Environmental</td>
<td>Operating Temperature Range 0°C to +45°C</td>
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<td>Max. Relative Humidity 90% non-condensing</td>
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<td></td>
<td>Max. Operating Altitude 2500 m. a.s.l. (&gt;2500 m. optional)</td>
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<tr>
<td>Electrical</td>
<td>Power Supply Energy distribution system with different options: - Line 380-400 V3N~, 50/60Hz - Line 220 V3N~, 50/60 Hz - Line 220 - 240V~, 50/60 Hz</td>
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<tr>
<td></td>
<td>Efficiency Up to 40% efficiency in digital</td>
</tr>
<tr>
<td>NOTES</td>
<td>To comply with the applicable standards and limit values for the suppression of out-of-band emissions (and in the case of digital standards, also for maintaining the required shoulder distance), the transmitter may only be operated with suitable filters at the RF output.</td>
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<tr>
<td><strong>Specifications are subject to change without notice.</strong></td>
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</table>
### UHF Models

<table>
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<tr>
<th>Transmitter Model</th>
<th>DTV Average Power Before Filter (W)</th>
<th>Total Number of PA's</th>
<th>Number of Tx Racks</th>
<th>Number of Pump Sets</th>
<th>Number of Heat Exchangers</th>
<th>Rack Style</th>
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<tbody>
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### VHF Band III TV Models

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<th>Number of Pump Sets</th>
<th>Number of Heat Exchangers</th>
<th>Rack Style</th>
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<td>Rack Style</td>
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<td><strong>VHF Band III DAB Models ≥33dB MER</strong></td>
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<td><strong>VHF Band I Models</strong></td>
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GatesAir efficiently leverages broadcast spectrum to maximize performance for multichannel TV and radio services, offering the industry’s broadest portfolio to help broadcasters wirelessly deliver and monetize content. With nearly 100 years in broadcasting, GatesAir’s exclusive focus on the over-the-air market helps broadcasters optimize services today and prepare for future revenue-generating business opportunities. Until 2019, research, development and innovation has been driven from the company’s facilities in Mason, Ohio and supported by the long-standing manufacturing center in Quincy, Illinois. In May 2019, the company acquired an Italian company operating as GatesAir S.r.l. which provides an additional research, development and service location within the EU.

GatesAir’s turnkey solutions are built on two pillars: Transport and Transmit. The company is best known for powering over-the-air analog and digital radio/TV stations and networks worldwide with the industry’s most operationally efficient transmitters. Groundbreaking innovations in low, medium and high-power transmitters reduce footprint, energy use and more to establish the industry’s lowest total cost of ownership. Support for all digital standards and convergence with mobile networks ensure futureproof systems.

In television, GatesAir supplies proven, trusted wireless UHF and VHF solutions across all power requirements to support single-station over-the-air broadcasters on up to large national networks. The industry’s most reliable software-definable exciters ensure broadcasters can optimize analog networks and quickly transition to digital TV in the field, with support for all major global DTV standards. GatesAir also supplies a wide array of over-the-air accessories to maximize transmitter control, network redundancy and signal compliance – along with installation, commissioning and ongoing support services – to deliver the industry’s strongest turnkey approach for customers worldwide.

Award Winning Service

From experienced installation and field service engineers to responsive factory experts, GatesAir provides the strongest service team in the broadcast transmission industry. Couple that team with reliable products, responsible service parts inventories and a demonstrated commitment to the industry, and you have a service offering that’s perfectly matched to your equipment and your operations.
Award Winning Service -- Global Locations

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