

UNITY201

ENTERPRISE AUDIO RECEIVER



WEGENER®



UNITY 201 DIGITAL AUDIO BROADCAST RECEIVER

The WEGENER Unity 200 is an economical, high performance MCPC satellite music receiver targeted to meet the needs of the private business music market. The Unity 201 is uniquely positioned to provide a range of audio qualities and channels to meet the needs of varying customers.

The 16-character front panel display allows you to select different audio channels based on network authorization. Using COMPEL, WEGENER's network control system, your network can control the audio service via the Internet using a web browser.

The Web Interface uses the COMPEL virtual networks program to define the level of resources a user can access. The user logon determines the receivers, channel and groups that will be visible for a particular user.

MPEG layer II decoding provides automatic selection of stereo, joint stereo or mono audio on the decoder based on network encoder operation. In addition, audio sampling rates (32, 44.1 and 48 KHz) and data rates from 64-256 Kbps in 64 Kbps steps are supported. To compare data rate to sonic frequency response, refer to the chart on the reverse. The Unity 201 also offers optional audio storage capability, which includes a second audio service output for dual simultaneous service delivery.

THE WEGENER ADVANTAGE – CONTROL

Your Unity 201 network will enjoy the power of COMPEL. You can control your Unity 201 receivers as individual sites or groups. This means more than just permissioning a receiver. COMPEL issues commands. Scheduling commands allow you to regionalize programming and regionalize commercials, thus increasing revenues. In addition, switching between satellite transponders or even to a different satellite for disaster recovery. Over 150 networks worldwide enjoy the unique power of COMPEL network control systems. Take control of your network with the right digital choice: Unity 201 receivers with the power of COMPEL Control.

FEATURES

- MPEG-2/DVB Compliant
- Front Panel Channel Select of IRD
- 16 Character Display
- MPEG Audio, One Stereo or Mono Output
- 2.7 to 30 Mbaud QPSK MCPC Audio Operation
- COMPEL Control
- Optional Storage with 2nd Audio Service Out

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ISO 9001:2000



Certificate No. 1502-005996, 006002

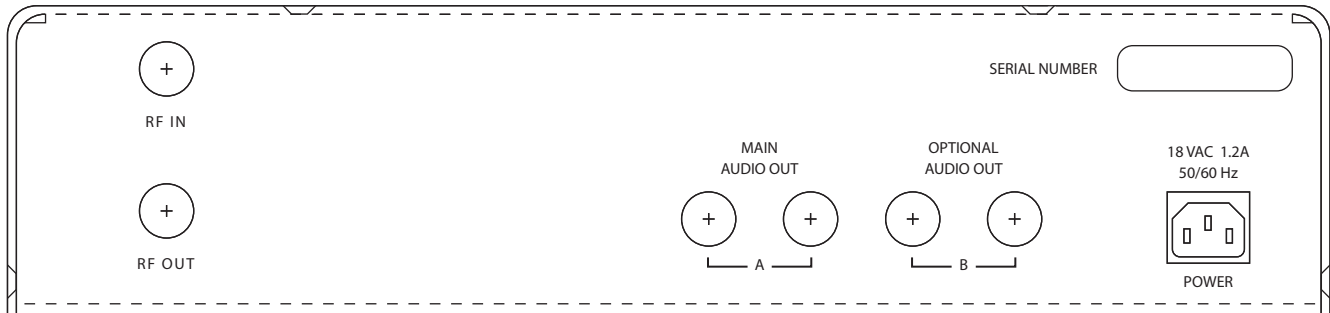
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THE UNITY 201 REAR PANEL



TECHNICAL SPECIFICATIONS

RF CHARACTERISTICS

| | |
|-----------------------|-------------------------|
| Input Frequency Range | 950 to 2150 MHz |
| Carrier Lock Range | +1.0 MHz |
| Input Impedance | 75 ohms |
| Input Connector | Type-F |
| LNB Power | 350 mA max. |
| Tuning Resolution | 1KHz |
| Modulation | DVB QPSK |
| Symbol Rate Range | 2.7 to 30 Msps |
| Transport Rate Range | 2.5 to 48 Mbps |
| FEC Coding | 1/2, 2/3, 3/4, 5/6, 7/8 |

AUDIO COMPRESSION CHARACTERISTICS

| | |
|------------------------|-------------------------------|
| Transport Stream | MPEG |
| Compression Type | MPEG Layer II |
| Data Rate | 64 to 256 Kbps |
| Output Modes Supported | Mono, Dual Mono, Joint Stereo |

AUDIO OUTPUT CHARACTERISTICS

| | |
|------------------------|--|
| Frequency Response | 20Hz to 20KHz (dependent on data rate) |
| Output Level @ max PPL | +9.0 dBm |
| Output Impedance | 1 K-ohm |
| Output Connectors | RCA, phono |
| Harmonic Distortion | <0.5% |
| S/N Ratio | >60 dB |

POWER AND MECHANICAL CHARACTERISTICS

| | |
|-----------------------|-----------------------|
| Power | Universal Switching |
| | 117 VAC +/- 10%, |
| | 0.8 A max, 60 Hz |
| Package Desktop: | 2.5"H x 9.25"W x 8" D |
| Operating Temperature | 10 to 50 C |

AGENCY APPROVALS

FCC Class A, UL

MPEG LAYER II FREQUENCY RESPONSE

(Limits shown are at -3 dB points)

| MODE | 1-CHANNEL | | | 2-CHANNEL | | | JOINT STEREO | | | |
|-----------|-----------|------|------|-----------|------|------|--------------|------|------|------|
| | f_s | 48 | 44.1 | 32 | 48 | 44.1 | 32 | 48 | 44.1 | 32 |
| DATA RATE | 64 | 11.2 | 11.0 | 12.0 | 6.0 | 5.5 | 6.0 | 6.0 | 5.5 | 6.0 |
| | 128 | 20.2 | 20.2 | 15.0 | 12.0 | 12.4 | 13.0 | 15.0 | 15.8 | 14.0 |
| | 192 | 20.2 | 20.2 | 15.0 | 18.7 | 18.5 | 15.0 | 20.2 | 20.2 | 15.0 |
| | 256 | - | - | - | 20.2 | 20.2 | 15.0 | 20.2 | 20.2 | 15.0 |
| | | | | | | | | | | |

Data Rate is kbps, f_s (sample rate) and bandwidths in kHz