

# UNITY 202

## ENTERPRISE AUDIO RECEIVER



## UNITY 202 FEATURES

**Live and Stored Audio Playback**

**Supports MPEG-2**

**Supports DVB-S2**

**Front Panel Channel Select  
with 16 Character Display**

**MPEG Audio, One Stereo  
or Mono Output**

**2.7 to 30 Mbaud QPSK, S2 QPSK,  
and S2 8PSK**

**COMPEL Control®**

### **DIGITAL AUDIO RECEIVER**

The Unity 202 is WEGENER's 2nd generation of economical, high performance satellite music receiver targeted to meet the needs of the private business music market. Its programmable storage capability ensures continuous, reliable service for regional ad insertions and automatic loss-of-signal music playback.

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.

### **MANAGE MULTIPLE SERVICES WITH COMPEL®**

The COMPEL network control package for music networks allows Unity 202s to be controlled as individual sites or groups. It can be used to strategically schedule customized programming and commercials insertions for multiple markets. Allow multiple regional users limited access to control portions of the network via an Internet web browser interface. Offer maximum disaster recovery protection by combining commands to store music on the Unity 202 and satellite retunes.

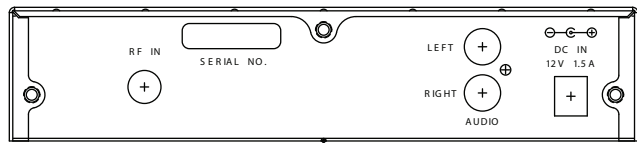


**WEGENER®**

OPTIMIZING MEDIA DISTRIBUTION

# UNITY 202 - ENTERPRISE AUDIO RECEIVER

THE UNITY 202 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/DVB-S2
Symbol Rate Range	2.7 to 30 Msps
Transport Rate Range	2.5 to 48 Mbps
FEC Coding	
QPSK:	2/3, 3/4, 5/6, 7/8
S2 QPSK:	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
S2 8PSK:	3/5, 2/3, 3/4, 5/6, 8/9, 9/10

### Audio Compression Characteristics

Compression Type	MPEG Layer II
Data Rate	64 to 256 Kbps
Output Modes Supported	Mono, Duo, Stereo

### Audio Output Characteristics

Frequency Response	20Hz to 20KHz
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	External AC
	Input: 100-240 VAC, 50-60Hz, 1.0A
	Output: 12 VDC, 1.5A
Package Desktop	1.55"H x 7.5"W x 6.55"D
Operating Temperature	10 - 40 deg C

### On-Board Storage

Storage	32 MB
Estimated capacity	1 hour of music at 64 Kbps

### Agency Approvals

FCC Class A, UL, CE

## 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
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 bandwidth in kHz

[www.wegener.com/PRODUCTS/index.php](http://www.wegener.com/PRODUCTS/index.php)

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