

UNITY 551

ENTERPRISE MEDIA RECEIVER



Unity® 551 BENEFITS

Support Global Deployments

Optimize Bandwidth Utilization

Integrated COMPEL Control®

Support Multi-Language Broadcasts

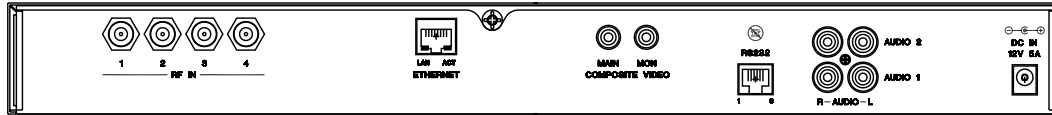
COST EFFECTIVE MEDIA DISTRIBUTION

The Unity® 551 Digital Media Receiver is a high performance satellite IRD targeted to meet the needs of dynamic private and enterprise television networks. Support global deployments with PAL and NTSC video.

COMPEL PUTS YOU IN CONTROL

COMPEL® network control system puts every WEGENER receiver and uplink feed under a central network operator's control. It gives you the power to manage a mixed network of Unity 551 and other WEGENER IRDs with unparalleled functionality. Use Compel to issue commands that are accurately synchronized with video and multi-language audio programming. Optimize bandwidth utilization with scheduled commands that regionalize programming and commercials. Command individual or groups of receivers to output video, audio, data, or switch/tune to specific satellite transponders for field-proven disaster recovery.

UNITY 551 - ENTERPRISE MEDIA RECEIVER



TECHNICAL SPECIFICATIONS

RF CHARACTERISTICS

Input Frequency Range	950 to 2150 MHz
Modes	MCPC or SCPC
Carrier Lock Range	±1.0 MHz
Input Level Range	-25 to -65 dBm
Input Impedance	75 ohms
Input Connector	Type-F (4) input RF switch
LNB Power (Universal)	13/18 VDC@250 mA max. 22KHz, Control Tone
Tuning Resolution	1KHz
Modulation	DVB QPSK
Symbol Rate Range	2.5 to 30 Msps
FEC Coding	1/2, 2/3, 3/4, 5/6, 7/8

VIDEO COMPRESSION CHARACTERISTICS

Video Data Rate	1.0 to 15 Mbps
Compression Type	MPEG-2 (4:2:0)
Resolution: Horizontal	720, 704, 640, 544, 480, 352
Resolution: Vertical (NTSC)	480, 240 lines @ 30 Hz
Resolution: Vertical (PAL)	576, 288 lines @ 25 Hz

VIDEO OUTPUT CHARACTERISTICS

Output Level	1 Vpp +/- 5%
Output Impedance	75 ohms
Output Connectors	RCA, Phono 2 ea.
Differential Gain	< 3%
Differential Phase	< 3 degrees
Line Time Distortion	2 IRE
Field Time Distortion	2 IRE
Teletext	CCIR ITU-R, System B
Closed Captioning	Line 21 CC and XDS

AUDIO COMPRESSION CHARACTERISTICS

Compression Type	MPEG Layer II
Data Rate	64 to 384 Kbps
Output Modes	
Supported	Mono, Duo, Joint Stereo

AUDIO OUTPUT CHARACTERISTICS

Frequency Response	20Hz to 20kHz
Output Level @ max PPL	9.0 dBm
Output Impedance	1 Kohm, unbalanced
Output Connectors	RCA, phono
Harmonic Distortion	<0.5%
S/N Ratio	>65 dB

ASYNCHRONOUS DATA CHARACTERISTICS

Data Format	RS232
Max Data Rate	38.4 Kbps
Output Connector	RJ11, Female

IP DATA CHARACTERISTICS

Encoding Format	DVB MPE
Ethernet	10/100 Base-T
Max Data Rate	10 Mbps, with video 15 Mbps, no video
Output Connector	RJ45, Female

POWER AND MECHANICAL CHARACTERISTICS

Power	Universal Switching 115 VAC +/- 10%, 0.8 A max, 50/60 Hz 230 VAC +/- 10%, 0.5 A max, 50/60 Hz
Size	1 RU (optional rack mount kit)
Operating Temperature	10 to 40

AGENCY APPROVALS

FCC Class A, UL, CSA, CE, RoHs

<http://wegener.com/PRODUCTS/index.php>

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