



# iPUMP 6400

## PROFESSIONAL MEDIA DECODER



### iPump 6400 APPLICATIONS

#### Broadcasting

- File-Based Broadcasting
- Regional Advertising
- Time-Shifted Programming
- Broadcast News Distribution

#### Private Networks

- File-Based Broadcasting
- On-Demand Training
- Retail Video Displays
- Corporate Communications
- News & Information

#### Video Over IP

- Streaming Media
- IP Data Distribution
- Multi-Format File Distribution

WEGENER's innovative file-based solution supports diverse customers, such as, retailers, educational networks, ad-supported video channels and broadcast news.

The iPump 6400 Media Server combines the features of a rack-mount video receiver with key features of a media server and IP router. The unit's flexible i/o design supports tailored configuration for different environments.

Use the iPump 6400 Media Server to:

- create multiple channels
- support satellite & internet file delivery
- stream video to desktops or television monitors
- time-shift programming
- regionalize program insertions
- access video on-demand
- access data files via LAN connection

Central network administrators can reduce network bandwidth usage by dynamically pre-positioning video content in end-user iPump 6400 Media Servers. WEGENER's end-to-end solution includes network control components to maximize the distribution of live broadcasts, stored content and seamlessly combine them to play-out custom broadcasts at the network's edge.

# iPUMP 6400 - PROFESSIONAL MEDIA SERVER

## TECHNICAL SPECIFICATIONS

### RF CHARACTERISTICS

Input Frequency Range	950 to 2150 MHz
Carrier Lock Range	±1.0 MHz
Input Level Range	-25 to -65 dBm
Input Impedance	75 ohms
Input Connector	Type-F
LNB Power (Universal)	13/18 VDC@350 mA max.22KHz, LO control
Tuning Resolution	1KHz
Modulation DVB	QPSK
Symbol Rate Range	1.55 to 45 Msps
Transport Rate Range	1.5 to 72.57 Mbps
FEC Coding	1/2,2/3,3/4,5/6,7/8

### ASI INPUT

MPEG Transport Stream Connector	DVB ASI BNC
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### VIDEO DECOMPRESSION CHARACTERISTICS

Video Data Rate	2.5 to 12 Mbps per service
Compression Type	MPEG-2, Main Profile 4:2:0 MPEG-2, Studio Profile 4:2:2
Resolution:Horizontal	720,704,640,544,480,352
Resolution:Vertical	480,240 lines @30 Hz(NTSC) 576,288 lines @25 Hz (PAL)

### VIDEO OUTPUT CHARACTERISTICS

Video Format	NTSC/PAL composite (and SDI with embedded audio)
Output Level	1.0 Vpp,+/-5%
Output Impedance	75 ohms
Closed Captioning	If present on input

### STANDARD DECODER CONNECTIONS

Video	S-Video with RCA adaptor
Audio	1/8" jack

### PROFESSIONAL DECODER CONNECTIONS

Composite Video	BNC connector
Serial Digital Interface (SDI)	BNC connector
Balanced Analog Audio and AES/EBU Digital Audio	DB-15 HD
Genlock Reference In	BNC

### AUDIO COMPRESSION CHARACTERISTICS

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

### AUDIO OUTPUT CHARACTERISTICS

Frequency Response	20 Hz to 20 KHz
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### DATA FILES

Access Modes	FTP, SMB, HTTP
LAN File Access Rate	30 Mbps
Satellite Download Rate	20 Mbps
# of Simultaneous Downloads	10

### OTHER OUTPUTS

IP Data	10/100 BaseT Ethernet
Alarm/Warning Relay	Relay closure via DB9 Solid state relay closure via DB9 (1 input, 1 output)

### CONDITIONAL ACCESS

- Compel CA

### MECHANICAL

Power	115 VAC +/-10%,0.8 A max,60 Hz 230 VAC +/-10%,0.5 A max,50 Hz
Size	3.5 " x 17 " x 16.5 " (rack mount)
Operating Temperature	10° to 40° C

### AGENCY APPROVALS

FCC Part 15B Class A, UL1950, CSA, CE, RoHS\*

\*available on select models

### iPUMP 6400 MEDIA SERVER PRODUCT OPTIONS

Input	DVB RF Input 4 input RF switch Ethernet ASI input
First & Second Decoder	Standard 4:2:0 decoder *Professional 4:2:2 decoder with Genlock and SDI output (*PAL video format not available)
Disk Storage Capacity	80, 250, 500 Gigabytes
Line Cord (power cord)	International
Other	KenCast FEC On-Screen Display (OSD) with RF remote control Modem

WEGENER  
11350 Technology Circle  
Duluth, GA 30097  
ph 770.814.4000  
f 770.623.0698  
info@wegener.com

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

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