

## ZAP100 802.11n Video bridge

# Video bridge for multi-stream HD IPTV



The Inteno ZAP100 video bridge is a high quality WiFi based HD/SD video bridge system designed for reliable distribution of multiple video streams (IPTV) throughout the home. ZAP100 is a true plug and play and robust multimedia networking solution.

The ZAP100 enables reliable and robust connectivity of HD and SD IPTV streams from Ethernet equipped broadband gateway or DVR to multiple IP set top boxes.

### Features

- Wire-like video experience
- Superior home coverage
- High interference immunity and trouble-free co-existence with neighboring systems
- Solves throughput bottleneck for wireless multi-room DVR support
- Plug & play installation
- Real time Transmit Digital Beam Forming MIMO
- Antenna diversity (4 Antenna elements) for maximum robustness
- Advanced interference detection and fast automatic channel scanning and hopping
- Advanced regulatory requirements support including Dynamic Frequency Selection (DFS)
- DLS support for MR-DVR support
- IGMP snooping, Multicast to Unicast translation and WDS support for seamless IPTV network integration
- WPS for simple setup and security configuration



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### Specifications, Physical Characteristics

**Power (external power adapter)**  
12VDC, 1A

**Antennas**  
Internal antenna array with  
4 Omni-directional elements

**Chipset**  
Single-chip design CL1820 2x3  
802.11n

**Ethernet ports**  
10/100/1000 Mb/s, RJ-45 port,  
Automatic MDI/MDIX

**LED display**  
Power, Ethernet, Wireless, Video  
link quality

**Control buttons**  
WPS push button, Reset button

**Operating temperature**  
0 - 40° C

**Humidity**  
10% - 90% (Non condensing)

**Certifications**  
CE (Europe)

### Specifications, Management

**Configuration**  
Web-based GUI management,  
CLI (Telnet), TR-069

**Software upgrade**  
Web-based, TR-069

### Specifications, WiFi

**Operating frequencies**  
4.9 – 5.8GHz, complies with 802.11h  
radar detection

**Security**  
WPA2 (AES)

**Channels**  
Country dependent for the following  
channel ranges: 36-64, 100-140,  
149-165

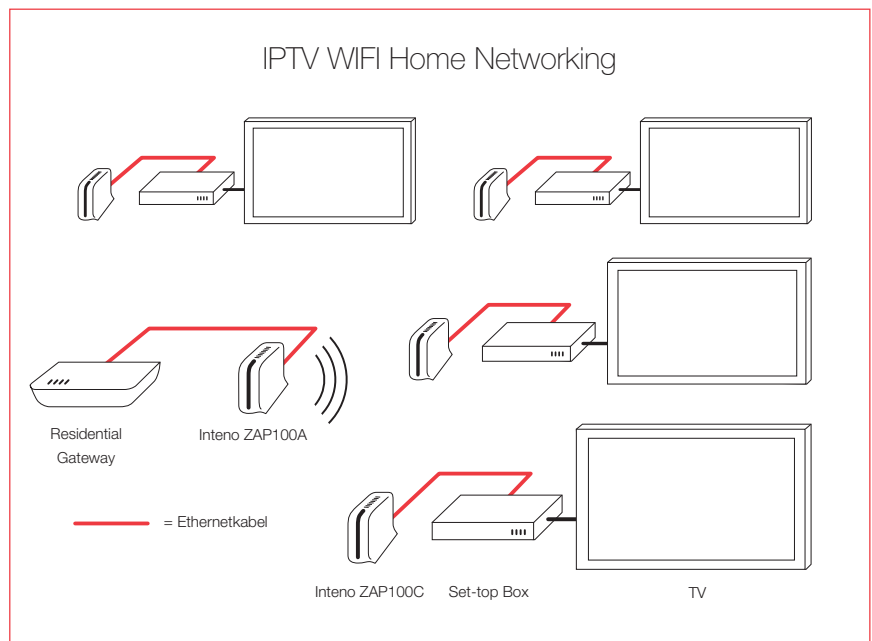
**Automatic transmit power control**  
Supported

**Country specific power limits**  
Supported

### OptimizAIR™ – Breakthrough Technology for Best Performance

Inteno ZAP100 employs cross-layer optimization of special PHY, MAC and smart antenna technologies to achieve dramatic increases in range and coverage, typically exceeding off the shelf 802.11n systems' HD performance by over 500%.

Industry-first Phased-Array transmit beam forming MIMO technology delivers long reach and high HD throughput with zero packet error rate. Unlike other solutions, the ZAP100 is completely channel aware with special silicon-based real-time processing that optimizes performance. It manages the radio power budget, transmission rate and detects noise levels to optimally deliver multiple HD video streams in the home.



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