

802.11n Wireless IP-STB

Value Proposition

- State-of-the-art High Definition video STB and PVR
- Highly flexible architecture (Adaptable to IP, Terrestrial, Cable, or Satellite)
- Cost effective design
- CE grade wireless connectivity to multimedia servers / AP through Metalink's WLANPlus™ 802.11n technology
- Customizable user interface
- Supports a wide variety of Digital Rights Management (DRM) and Conditional Access (CA) solutions

Video

- MPEG-4.10 (H.264), SMPTE 421M (VC-1), WMV9, MPEG-4.2 and MPEG-2 decoding
- HDMI
- S-Video
- Component (YPrPb)
- Composite (CVBS)



Audio

- TosLink
- S/PDIF RCA
- Analog Stereo RCA

Specifications

- Chipset:
 - Video: Sigma Designs 8634 with 300MHz 4KEc MIPS processor
 - Wireless: Metalink WLANPlus 8171 / 8151 2 x 3 MIMO chipset
- Power: 110-240 AC input
- Unit size (W x H x D): 432mm x 41mm x 235mm
- Environmental temperature range: 0° to 40°C
- Customizable User Interface
- Front Panel
- Remote control
- Middleware (software)

Features

- High Definition Video (1080p)
- PVR/DVR
- 802.11n wireless connectivity

Network

- LAN 10/100
- USB 2.0
- WiFi 802.11n

Options

- Single or dual tuners
- RF Modulation
- DVD
- HDD
- E-SATA
- Modem
- MOCA
- VOIP

Wireless Connectivity

WLAN*Plus* by **Metalink** is an optimal high-throughput wireless interface for various consumer electronics products such as Residential Gateways, DTV, HDTV, Set Top Boxes, Media Adaptors, Digital Video Recorders (DVR), Portable display appliances, and game consoles. With the use of Metalink's WLAN*Plus* mPCI card, wireless connectivity to 802.11n draft compliant devices as well as to legacy 802.11 a/b/g devices is guaranteed. WLAN*Plus* enables to send and receive multiple HDTV streams over robust and reliable wireless link, providing seamless connection between the video source (live or stored) and the display device.

WLAN*Plus* Key Features

- Compliant with the IEEE 802.11n approved draft
- Backward compatibility with legacy devices -802.11 a/b/g
 - Supports Mixed-mode to enhance performance while interoperating with legacy devices
- Enhanced MAC Efficiency
 - Up to 210 Mbps effective throughput (payload) using Frame Aggregation and Block Acknowledge
- Dual Band support - 2.4 GHz and 5 GHz
- Fast Link Adaptation for throughput maximization under QoS and delay constraints
- PHY transmission rates of up to 300 Mbps
 - 2x3 MIMO delivers extended throughput and QoS
 - Maximum Likelihood (ML) Slicer doubles coverage area
 - Channel bonding, supports 20 Mhz and 40 MHz channels
 - Advanced coding LDPC extends coverage by up to 70%
- Advanced Security Scheme, 802.11i-compliant
- Advanced QoS Scheme, 802.11e-compliant



Technical Specifications

Frequency Band:	2.400 - 2.485 GHz 4.900 - 5.950 GHz
Network Standards:	802.11n 802.11a/b/g
Data Rates:	802.11a - 6 to 54 Mbps 802.11b - 1 to 11 Mbps 802.11g - 6 to 54 Mbps 802.11n - up to 300 Mbps
Modulation Modes:	(OFDM) - BPSK, QPSK, 16QAM and 64QAM (DSSS) - DBPSK, DQPSK, CCK
Channel Code (FEC):	Convolution Code Advance Coding (LDPC)
Security:	Compatible with 802.11i 64 bit/128 bit key WEP, AES, TKIP, WPA, WPA2
QoS:	Compatible with 802.11e EDCA, EDCA w/Admission Control Direct Link Setup (DLS) Fast Link Adaptation