

Tornado M50

IPTV Set-Top-Box

PRODUCT OVERVIEW

Tornado M50 is an innovative and feature-rich set-top-box, specifically designed for deployment in IPTV and Video-on-Demand infrastructure. The product features H.264 and MPEG4 video compression, which allows it to deliver high quality video streams over IP networks with low bandwidth utilization. Tornado M50 supports High-Definition video up to 1080p resolution which offers a more exciting viewing experience, especially on large format TVs. Additionally, Tornado M50 features a myriad of popular information and communication services, including chat, email, calendar, news, calculator, weather information and more.

IPTV and Video-on-Demand Support

Tornado M50 offers delivery of streaming video content, including IPTV and Video-on-Demand (VoD) directly to the TV screens of end-users. The device receives H.264, MPEG4, MPEG2 or WMV encoded video streams over broadband connections. It then decodes such streams internally and sends the resulting video signal to the TV set of the end-user.

Digital Music and Internet Radio Delivery

Tornado M50 also supports delivery of streaming audio content, enabling end-users to enjoy digital music and Internet radio channels on their TVs. The product utilizes high audio compression MP3 technology for maximum quality of the delivered audio content.

H.264, MPEG4, MPEG2 and WMV Support

Tornado M50 supports low bit-rate H.264 video compression technology which substantially reduces its bandwidth requirements. Compared to older video compression technologies, H.264 offers better video quality at substantially lower bit rates. Because of more efficient bandwidth utilization, Tornado M50 enables providers to reduce the cost of delivering services to subscribers. Tornado M50 also supports popular MPEG4, MPEG2, and WMV video compression technologies.

High Definition Support

Tornado M50 supports High Definition (HD) video at resolutions up to 1080p (H.264) and 720p (MPEG4). That allows it to deliver video with greater detail, realism and quality, especially to large format TV screens. High Definition video signal from Tornado M50 is delivered to the TV screen via either HDMI or composite cable.



KEY FEATURES

- IPTV and Video-on-Demand Support
- Digital Music and Internet Radio Delivery
- H.264, MPEG4, MPEG2 and WMV Support
- High Definition Support
- Online Chat and Email Clients
- Media Center Functionality
- Headline News and Weather Reports
- Dolby 5.1 Audio Support

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Online Chat and Email Clients

Tornado M50 enables end-users to communicate with friends and families while watching their TVs. The device offers universal chat client that can communicate directly with the popular ICQ, AOL, and MSN clients. Tornado M50 also offers integrated email client which enables users to check and send emails directly from their TV screens.

Headline News and Weather Reports

Besides delivery of IPTV and VoD content, Tornado M50 also offers a myriad of communication and information services. Two of the more popular ones are news headlines and local weather reports. Tornado M50 supports RSS technology and can be integrated with any standard RSS news source. Additionally, Tornado M50 can deliver weather news for a particular city/ZIP code.

Media Center Functionality

Tornado M50 offers to end-users convenient access to content stored on their home PCs. It can build a list of movies, videos and music files stored on a personal computer located within the same Local Area Network (LAN). When the end-user selects a file from that list, Tornado M50 will play it on the TV.

Dolby 5.1 Audio Support

Tornado M50 supports the Dolby 5.1 Audio standard for exceptional sound quality. The Dolby technology allows up to 6 channels of surround sound to be delivered to end-users. An established standard for high end home theatre systems, surround sound is gaining wider adoption in modern IPTV systems.

Technical Specifications

Connectors/Interfaces:

- One Ethernet (RJ-45) 10/100M Port
- Two USB 2.0 Ports*
- One HDMI Port*
- One Composite Port
- One S-Video Port*
- One YPbPr Port
- One L/R Audio Port
- One RS232 Port*
- One Infra Red (IR) Interface
- One S/PDIF Port*

Video Codecs and Formats:

- H.264
- MPEG4
- MPEG2
- WMV
- DVX
- ASF
- AVI

Audio Codecs and Formats:

- MP3
- AAC
- WAV
- Dolby Digital 5.1
- DTS 5.1*
- 16bit Linear PCM with HDCD Support

Resolution:

- H.264: Up to 1920x1080p at 24fps, 1920x1080i at 30fps, or 1280x720p at 60fps
- MPEG4: Up to 1280x720p at 30fps

Protocols:

- UDP (RFC768)
- TCP (RFC793)
- IPv4 (RFC791)
- ARP & RARP
- DNS
- DHCP (RFC2131)
- PPPOE (RFC2516)
- NTP (RFC 1889)
- IGMPv1, v2, v3 (RFC1112, RFC2236, RFC3376)
- IGMP
- BOOTP
- RTP/RTCP
- RTSP
- HTTP

Dimensions:

- 9.5" (W) x 1.75" (H) x 7.5" (D)

* Feature supported only in Tornado M50 Plus version.



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