



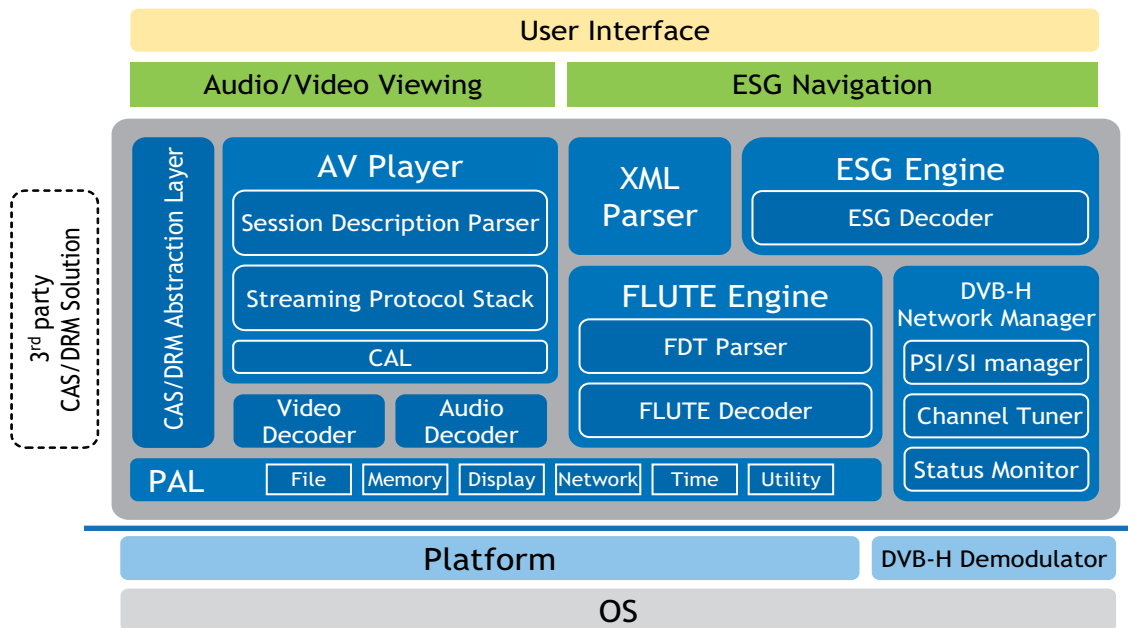
MOBILE TV MIDDLEWARE

thinDVB-H™

thinDVB-H is the DVB-H middleware solution from Thin Multimedia, Inc (TMI). thinDVB-H enables the simultaneous transmission of multiple television and radio channels for mobile handsets. It also provides Electronic Service Guide services and a multimedia player. This solution uses terrestrial broadcasting networks to deliver the highest quality viewing and listening experience for mobile users.

thinDVB-H is compliant with both the Modeo AIPS (Air Interface Profile Specification) for the US market, and DVB-IPDC Phase 1 for the European market. This solution includes standard codecs, including H.264, AAC+, and Windows Media Technology based codecs.

thinDVB-H is available as a consumer application and as an SDK for client development.



FEATURES

- Optimized for RTOS (embedded Linux, Nucleus), WM 5.0, and Windows
- Media Player
- Electronic Service Guide Viewer
- Simple design for easy integration
- Multi-codec support to accommodate any mobile carrier's requirements
- Interface to hardware codec of handsets
- Codec adaptation layer offers portable interface to hardware and software codecs
- Currently licensed for commercial application to a Silicon Valley SoC vendor

SPECIFICATIONS

- Video Codec: H.264/WMV
- Audio Codec: AAC+/WMA9 Pro
- ESG Viewer
- Protocol Stack: RTP/SDP, MSB/NSC, FLUTE/ALC, FEC Scheme
- Service Purchase and Protection: WM DRM 10, 18Crypt, OSF
- Compliant with DVB-IPDC specifications and Modeo AIPS

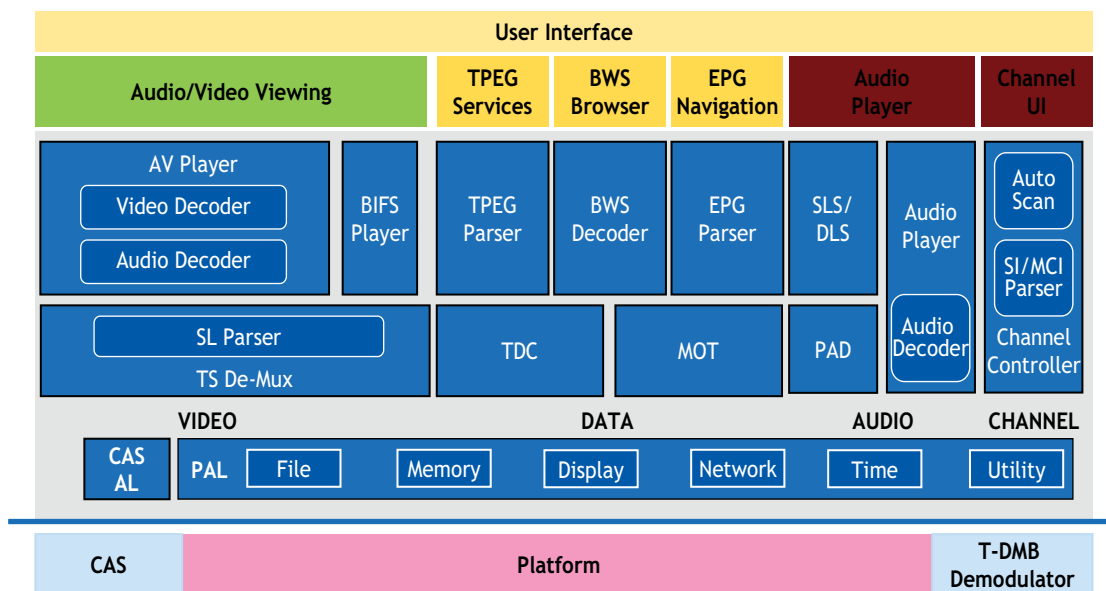


MOBILE TV MIDDLEWARE

thinT-DMB™

thinT-DMB is the T-DMB middleware solution from Thin Multimedia, Inc (TMI). thinT-DMB is fully compliant with the ETSI standards (TS 102 427 and TS 102 428). It provides a multimedia player and additional data services, including EPG and TPEG.

thinT-DMB is a system based on Eureka 147, a Digital Audio Broadcasting (DAB) standard that uses broadcast channels to deliver TV, audio, video, and data to mobile handsets.



FEATURES

- Error concealment
- Optimized for RTOS (embedded Linux, Nucleus), WM 5.0, and Windows
- MPEG-2 demux output: audio, video, BIFS
- EPG Parser based on ETSI/TTA specification
- Comprehensive UI support
- Supports interface with handset's codec
- Interface to software or hardware codec
- Currently licensed for commercial application to a Silicon Valley SoC vendor

SPECIFICATIONS

- EPG Parser: MOT Parser/Binary XML
- TPEG Parser: (CTT, RTM, PTI, etc)
- Channel Controller (Auto Scan, SI/MCI)
- BIFS Player: Interactive Service Player
- BWS Decoder: Broadcasting Website
- CAS Manager: Interface wrapper for CAS
- Transport Protocol:
 - MOT Header/Directory Mode
 - MOT X-PAD/Packet Segment
 - TDC Packet/Stream Mode

ABOUT THIN MULTIMEDIA, INC.

Thin Multimedia, Inc. (TMI) is the leading mobile multimedia software solutions provider to wireless carriers, chipset and handset manufacturers, and content providers. Eleven wireless carriers have commercially deployed TMI solutions for mobile multimedia. TMI has also provided solutions to some of the most prestigious content providers in the world, and to Tier 1 handset and chipset manufacturers around the globe.