

Solutions for innovate digital TV applications

TARA Systems

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Innovation and integration of useful, hitherto separated features is the key for manufactures to differentiate from their competition. To enable and speed up implementation of innovative digital TV products, TARA Systems offers flexible and customizable DVB software solutions, tools and development services.

Differentiation through innovation

The ongoing digital revolution is changing the consumers' expectations rapidly. The convergence of consumer electronics, PC, mobile and automotive world and the easy access to content at any time and any place creates new user behaviour and new business models. Innovative, trend-setting products from PC and mobile segment increase the consumers' demands for more functionality, easy usability and compelling user interface design.

For device manufacturers, these market changes offer much potential: They can differentiate from competitors with innovative products that combine hitherto separated, useful features and provide an easy-to-use and stylish user interface. To realize such products, manufacturers need solid software solutions and tools that leave room for flexible enhancements, as well as reliable, specialized partners, which can contribute development expertise.

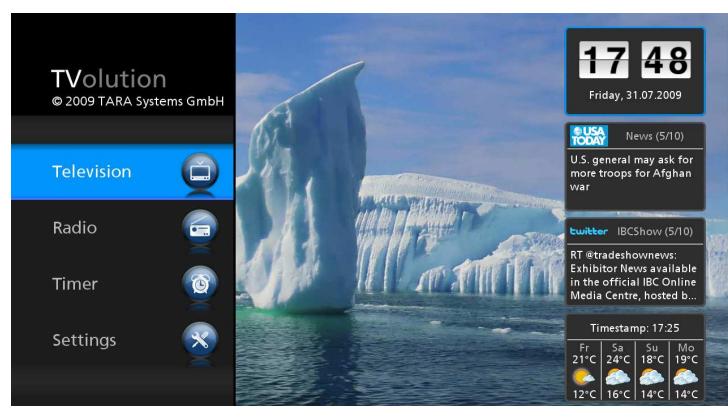
TARA Systems, founded in 1990, is an independent, privately-owned provider of lean, flexible and portable embedded software solutions and tools for digital TV reception and graphical user interfaces. With 19 years of experiences in the market, with software deployed in millions of devices and with strong partners amongst semiconductor manufacturers and solution providers, we help our customers to create innovative, rich-featured and sustainable products that win the consumers' attention.

Flexibility for a wide application range

TARA offers a wide range of DVB solutions, ranging from plug-in components - to enhance existing CE

products with e.g. EPG, Teletext or DVB Subtitling - to the integrated Inaris DVB/PVR solutions and turnkey solutions for manufacturers, which plan to add DVB functionality to portable or automotive devices. Especially the flexible, integrated Inaris DVB/PVR solution is suited as solid and extendible fundament for manufacturers, which want to integrate new connectivity, e.g. access to specialized web content or access to electronic devices at home, into the familiar TV functionality. Here, TARA can contribute software, consulting and development services, as it is already doing in current projects for connected hybrid DVB/IP devices, eHome connectivity or smart metering via TV set and STB.

Today, TARA's software components are deployed in hundred millions of devices, ranging from HDTV sets, DVD(R)s and Set-Top Boxes of most major CE brands to portable navigation devices (PNDs) and car entertainment systems. Amongst its customers, TARA is well-known for portable, flexible solutions and its high quality and reliability as a development partner.



The TVolution DVB Turnkey solution combines TARA's Inaris DVB solution and a customizable user interface application. Besides DVB/PVR functionality, it is extendible e.g. for hybrid DVB & IP scenarios or access to web content via specialized UI widgets.

„Excellence in Embedded CE Software“

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Inaris DVB Solution



- Integrated solution for reception of TV and radio services via DVB-T/-C/-S.
- Extended 7-days EPG with fast, flexible “EPG search agents”, e.g. for title, actor, genre, full text.
- Teletext L1.5/L2.5 decoder, optional with own True Type Font for improved readability.
- DVB Subtitle & DVB HD Subtitle decoder
- Single-tuner support. Extension to multi-tuner in planning.
- Common Interface (CI) support.

Inaris DVB PVR Solution



- Extension of Inaris DVB Solution enabling PVR functionality, e.g. one touch recording, recording from EPG, time shift.
- Including archive management, conflict handling and “PVR agents” for search of e.g. series recordings.

Inaris Plug-In Components

TARA provides stand-alone DVB components for integration into existing DVB products:

- Teletext L1.5/L2.5 decoder. Optionally an own True Type Font is available for improved display quality and readability.
- DVB Subtitle & DVB HD Subtitle Decoder
- “Inaris DB”: very fast embedded In-RAM database, used to store e.g. EPG data, program and archive lists, media meta data or device settings.








TARA’s market-proven software is well-known for:


- High software quality due to sophisticated automatic testing, e.g. with TARA’s own DiVi test tools and DVB streams from all over Europe.
- Easy porting and customization for a wide range of products and hardware platforms.
- Easy integration into GUI applications with TARA’s own GUI tool “Embedded Wizard”

DVB Turnkey Solutions


Based on the Inaris DVB/PVR Solution – enhanced with a compelling and customizable user interface application in three variants:

- “TVolution DVB” suited for Set Top Boxes and IDTVs with DVB-T/-C/-S. Extendible for hybrid DVB/IP environments. Prepared for browser integration and UPnP. 
- “TVolution DVB PVR”: Extended with personal video recording functionality. 
- “Mobilution DVB-T”: optimized for small touch screen displays, e.g. portable navigation devices. Including intelligent, self-learning DVB-T cell handover for seamless TV reception during travel. 

“Embedded Wizard” GUI Development Tool

Based on years of experiences with the process of GUI development, “Embedded Wizard” truly is a tool from developers for developers.  Embedded Wizard is used by manufacturers worldwide for development of IDTVs, STBs, PVRs, DVD(R)s, portable navigation devices and automotive applications. In current version V5.20, Embedded Wizard introduces a new lightweight 3D design approach, which provides easy-to-use 3D effects for cutting-edge GUI designs, integrated into the familiar, user-friendly Embedded Wizard workflow. Available on certain suitable embedded platforms.

DiVi Tools for DVB Testing

Whether manufacturers want to test their own DVB developments or want to verify the correct integration of TARA’s Inaris DVB solutions into their products, TARA’s DiVi Tools  provide the necessary flexibility. They enable recording, analysis, manipulation and generation of DVB-T/-S/-C transport streams for test purpose.

For further information on TARA’s solutions and tools, please see our website:

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