

# Subtitle Decoding Solutions

## TARA Systems

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**TARA Systems offers flexible software decoders for DVB-Subtitling and several other subtitle standards and enables an easy integration of the important subtitling feature into existing CE device software.**

Subtitling has become an important feature of CE devices, like TV sets, STBs and PVRs, which is used to display text information for hearing impaired people or translations into several languages. Moreover, some of the available subtitle standards are also mandatory in certain countries, like e.g. Closed Caption in the USA.

For the various subtitling standards, TARA Systems offers several flexible, platform independent decoder solutions, which can be integrated into existing software on various embedded platforms easily. In addition, TARA provides test tools for data broadcasting, in order to verify the integrated software decoders and to ensure a high product quality.

### DVB / DVB HD Subtitling

Within DVB subtitling, the captioning standard in the digital TV environment, all subtitles are broadcasted as bitmaps. This enables the display of all international characters, including e.g. Far East characters and broadcaster logos, without the need for special fonts within the decoder software. TARA Systems offers software decoder for DVB subtitling and DVB HD subtitling.



*DVB Subtitle Decoder Screenshot*

### Teletext Subtitling

Teletext is a well-known feature in analogue TV and, because of its popularity, is also available in DVB. Within Teletext, character-based subtitles can be broadcasted on specific Teletext pages. TARA Systems offers Teletext decoder (Level 1.5 & 2.5) for analogue TV and DVB.

### Closed Caption

“Closed Caption” is a broadcasting standard for movie captioning and video attendant information. It is used in the USA, Australia, Korea and several other countries and is regulated by the FEC in the US market. TARA Systems offers decoder software for the CEA 608-B Closed Caption standard (for analogue TV).

### Test Tools and Consulting

TARA Systems also develops and provides cost-effective, flexible test tools for data broadcasting, e.g. the “DiVi Tools” for DVB (digital) and the “Geditor” and “VBI-Recorder” for VBI (analogue). TARA’s tools enable developers, to create, modify and play out custom test data in order to verify their decoder software in factories, laboratories and field tests.

TARA also provides its experiences for consulting, implementation support and support regarding features and standards in CE devices.

### Contact

For further information please contact [info@tara-systems.de](mailto:info@tara-systems.de) or visit our website: [www.tara-systems.de](http://www.tara-systems.de).

*„Excellence in Embedded CE Software“*

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