

Services portfolio

Company introduction

Bell Tronics provide software development services to ARM SBC products made by leading industrial hardware manufactures.



Our software team as many years of professional experience in development remote management products, wireless network technologies for high user-density environments, video streaming, encoding, decoding, drivers.

The software team are using C (up to C99), C++ (up to C++14), Python, Javascript, Shellscript, HTML and specializes in Gstreamer, Video Streaming for encoding and decoding and network protocols such as RTSP and HTTP.

Libraries and systems:

The software engineers are using the latest libraries and systems:

GStreamer1.x, OpenEmbedded / Yocto Project, the Boost C++ libraries, Qt 4.x and 5.x, the OpenGL graphics API, Linux/POSIX, ALSA.



Operating Systems



Blink



Board Support Package (BSP)



Yocto Project



Consultancy

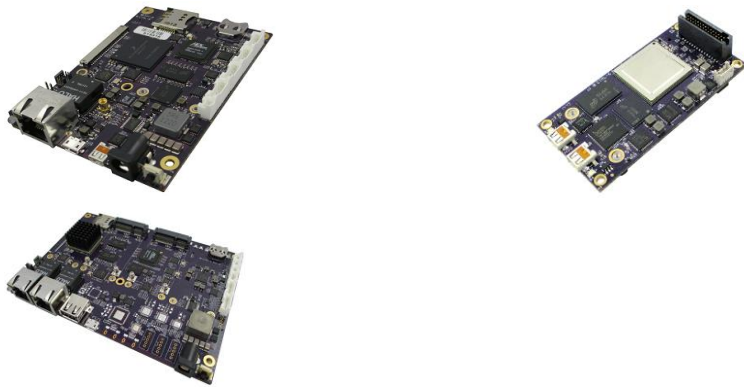
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Protocols and formats:

- Network protocols: RTP real-time transmission protocol, RTSP, HTTP, UPnP, DLNA, PTP
- Audio and video formats: MP3, AAC, MPEG-2, MPEG-4 part 2, h.264, h.265, FLAC, Opus, Ogg Vorbis.

Hardware:

We use ARM SBC products made by leading industrial hardware manufactures with operation temp from -40C to 85C. Hardware include a variety of inputs and outputs and can be customize to customer spec, OEM.



Particular topics:

- GStreamer-based audio/video processing, Video Streaming. based audio/video processing on embedded devices such as NXP i.MX6 SoCs, Texas Instruments Sitara AM335x, Raspberry Pi including robust HTTP buffering for optimal playback from DLNA/UPnP sources.
- Integration of platform-specific features such as hardware-accelerated video en/decoding and image processing.
- General audio/video/graphics processing, also on Linux-driven embedded devices such as the Raspberry Pi and the BeagleBoard.

Examples of authored projects:

Application capable of encoding and decoding data coming from analog input (CVBS), digital input (HDMI), USB video cameras. Possible encoding formats are h.264, MPEG-4 part 2, motion JPEG, Includes web interface for configuration. Multiple encoding resolutions 1920x1080, 720x480, 640x480 are supported, recording data on SD card. The encoded data is transmitted via RTSP and HTTP to clients.

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