# TV based applications with ARM 7500

- Drive NTSC and PAL TV sets from ARM 7500
- Anti-aliased fonts for high definition text.
- "Anti Twitter" software for stable text on interlaced displays

ART provide a development system for building TV based products around the ARM 7500 processor. This is based around the ART 7500 development system (see separate data sheet DS001) and a separate encoder extension which enables it to drive either NTSC or PAL standard Televisions.

The combination of this encoder hardware with the software support to enable clear text on interlaced displays enables the application developer to produce systems 'rapidly which will use a TV as the monitor.

The software falls into three main areas:

- Mode selection
- Rendering
- Anti-twitter processor

The mode selection software sets up framebuffers and VIDC for an interlaced display. A number of options are available, including a novel approach which makes framebuffer access simpler.

The Font manager can anti-alias text as it renders, making flicker free outline fonts possible.

Finally, the anti-twitter post processing smooths graphics created by the ART graphics library or RISC OS so that the display stabilises.

Example applications of this TV display technology include the Acorn Online Media Set Top Box and the Network Computer.

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