



Bridgetek raises the bar again in electric vehicle dashboards. The powerful FT813 Embedded Video Engine (EVE) paired with a low-cost STM32 microcontroller delivers an outstanding user experience with instant-on, low system cost, and the reliability required for on-vehicle displays. This technology demonstration runs smoothly at 60 fps on a single 64 Kbyte STM32F4, using about 75% of the EVE's graphical resources. The LCD panel resolution is 800 x 480 pixels.



Inset display gives vehicle context with an infinite 3D background, smoothly rendered and animated



Lamp visibility is enhanced by an **HDR (High Dynamic Range)** Effect added as a post process pass



Radial gauges are rendered in 24-bit color, giving at-a-glance indication of current levels



EVE's advanced architecture can draw text at any angle – this custom font is drawn on the radius of the speedometer



All display elements are drawn with 16X oversampled antialiasing, giving a clean and modern experience



The speedometer is rendered to subpixel precision with an eye-catching circular glow element