Reconfigurable Instrument Cluster

Visteon’s Reconfigurable Instrument Cluster is a flexible, full-digital display, cluster platform that allows for maximum hardware/software reuse and extensive customizations. The architecture allows for standalone display or in combination with traditional gauges. Screen resolution of 1280x480 supports fully reconfigurable TFT clusters with photo realistic pointers and sweep. Customized light pipe overlays give unique styling, lighting and driver messaging options.

Benefits

- Cost competitive scalable architecture for TFT based clusters. Uses common hardware with different software and HMI for fewer end item variants and maximizes engineering re-use
- Supports complex graphic and video features such as driver awareness systems and camera inputs
- Incorporates changeable themes, colors, skins, customized gauge styles and sounds for many personalization opportunities
- Enables creative application of exposed light pipe illuminated by the color digital display

Status

☑ Production
☐ Application ready
☐ Advanced development

Specifications and descriptions contained in this document were in effect at the time of publication. Visteon reserves the right to discontinue any equipment or change specifications without notice and without incurring obligation.
Features

Displays

● Up to two TFT displays
● 1280x480 resolutions
● OpenGL hardware graphics accelerator for advanced animations

Gauges

● Up to standard six analog gauges to augment TFT appearance
● Range of industry leading motors
  – Heavy pointers to allow for more styling options
  – Pointers options including concentric design
● Zero bounce homing

Vehicle Networking

● Supports multiple CAN or LIN networks
● MOST, NTSC, LVDS and Ethernet supported for graphics and video
● Cluster makes ideal location for feature integration

Lighting

● High impact, high contrast
● Stage lighting effects
● Efficient light guide design
● Partially transmissive lens
● Secret-until-lit features

Appearance

● Creative use of exposed light guide to give 3D, high craftsmanship appearance and unique driver messaging options
● Surface textures, including real metal appliqués and knurled rings
● User selectable, or configurable, themes allow the information to be displayed as needed or requested by driver