

MULTIBUS SYSTEM

Dashboard modules

MultIC: MultiBUS Instrument Cluster

Highlights

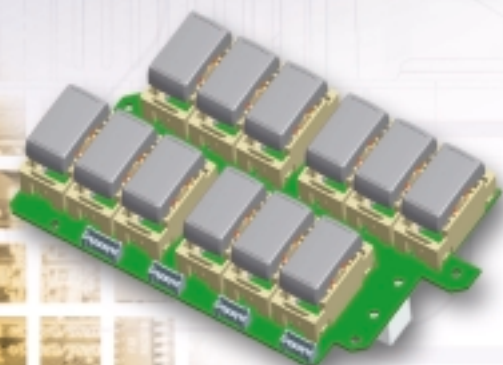
- **New electronic cluster range using latest technologies:**
 - Up to 6 gauges with back mounted stepper motors,
 - Up to 19 High-Brightness LED's for W/L functions,
 - Back light by LED's,
 - 1/4 VGA display in Monochrome LCD, Colour LCD or Colour TFT,
 - LCD odometer.
- Video display capability on colour TFT display version (up to 4 video inputs).
- Input and Output interfaces with additional function keys.
- Internal audio Transducer.
- MMI and application S/w compliant with ActiGRAF® PLC workbench.
- 2 sizes of lens.



Generic switch pack with 6 switches

Highlights

- **Mechatronic concept by integration of rocker switches and electronics.**
- **Concept using new low current switch:**
 - MMI similar to current switch standards,
 - Full separation of the electrical and mechanical parts,
 - High performance gold contact switch,
 - Back-light by LED.
- **Master and slave version in radio DIN format.**
- **Design oriented to modularity:**
 - Momentary or stable 2 or 3 positions rugged rocker body,
 - Customisation of the switch by functional S/w.





Display Modules: SCU & ICU

Highlights

- Centralise and manage information inside the vehicle.
- Stop the "growth of screens" in the driver area.
- Display the right information at the right time without human intervention.
- Propose an Hardware platform easy to customise (ActiGRAF® compatible).
- Have a Man Machine Interface close to current automotive dashboard designs.

Features

SCU

- 5.5 inch 1/4 monochrome LCD display with LED backlight.
- MMI and application S/w compliant with PLC workbench ActiGRAF® PLC workbench.
- Input and Output interfaces.
- Up to 3 CAN interfaces (ISO 11898).
- Optional SAE J1708 interface.
- Multitone buzzer.
- Optional warning / control lights and keypad.
- Easy customisation of the front panel.

ICU

- 6.5 inch (16/9 format) 1/4 VGA display in monochrome LCD, colour LCD or colour TFT.
- Video display capability (up to 4 video inputs).
- MMI and application S/w compliant with ActiGRAF® PLC workbench.
- Input and output interfaces or additional function keys and warning lights.
- Open to other systems through gateway function:
 - up to 3 CAN interfaces for J1939 standards,
 - SAE J1708 interface,
 - LIN interface.
- Internal audio transducer.

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