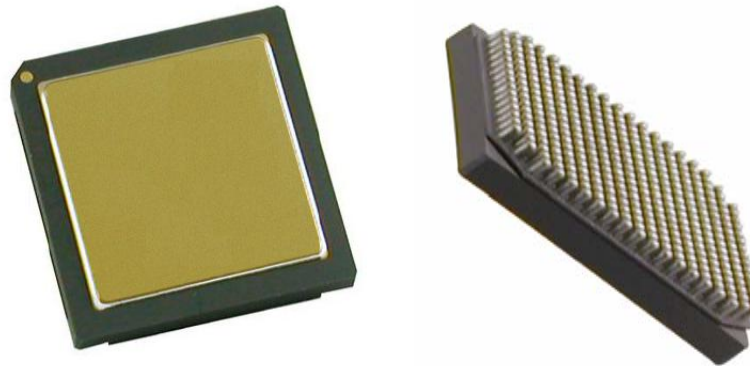


# SpaceWire Remote Terminal Controller SpW-RTC - AT7913E

Jørgen Ilstad

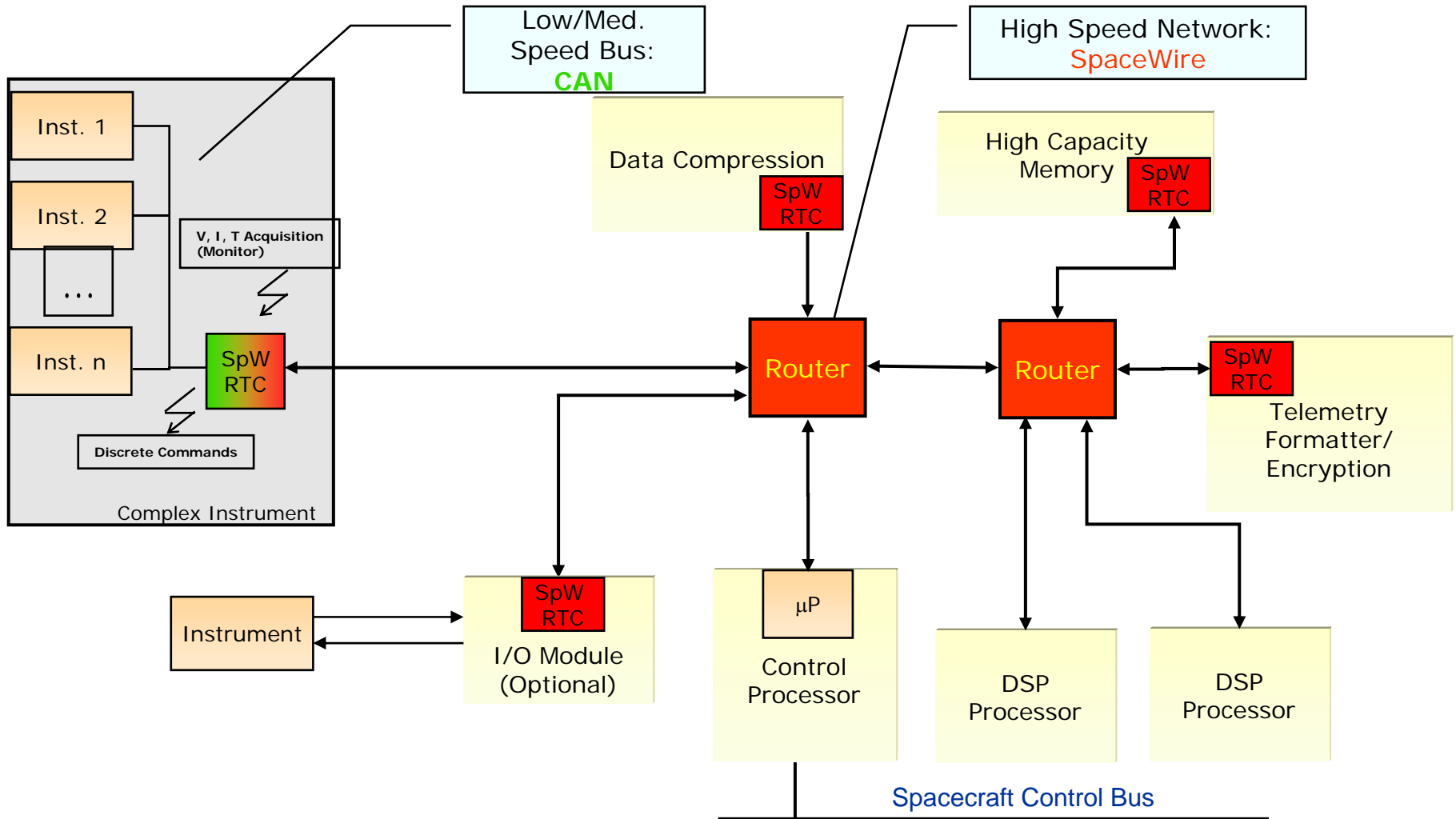
*Onboard Payload Data Processing section (TEC-EDP)*



## Main Characteristics

- Bridge between SpW network and CAN network
- Dual 200Mbps SpW links (RMAP compliant)
- CAN controller (Support 2 links)
- Interfaces to ADC/DAC, RAM, FIFOs, GPIOs, UARTS
- SPARC V8 LEON2-FT processor with FPU (50 MHz)
- MCGA 349 pins package
- 3.3V for the I/Os, 1.8V for the core
- 0.18um ATC18RHA (ATMEL) CMOS technology

# On-board Payload Data Processing System



## Upcoming Milestones

- **ASIC prototypes available from Atmel Week 10 2008**
- **ASIC Validation Review, 30.05.2008**
- **Acceptance Review, 30.05.2008**
- **Final Presentation, 30.05.2008**



## Development Tools

- SpW-RTC Development Suites
  - Includes HW and SW components for rapid prototyping
  - Two providers; Gaisler Research (S) & Aurelia Microelectronics (I)
  - Available as COTS Q2 2008

**Thank you  
for  
your attention**

For Further Information Contact  
**[spacewire.components@esa.int](mailto:spacewire.components@esa.int)**