



## IC2 - Compact PCI

**This course is an extension to the PCI course**

### Objectives

- This course highlights the new hardware features / constraints of CompactPCI with regard to PCI.
- Hardware and software additional requirements to support hot swap are explained.
- Implementation of a non-transparent 21554 intel PCI-to-PCI bridge frequently used in Compact PCI systems.

*A more detailed course description is available on request at [info@ac6-training.com](mailto:info@ac6-training.com)*

### Prerequisites

- Knowledge of PCI 3.0: see our course reference [IC1](#)

### Plan

#### **THE CompactPCI SPECIFICATION**

- Backplane design rules
- Board design rules
- Clocking
- Interrupt lines
- Electrical requirements on the system board

#### **HOT SWAP**

- Architecture model, compliance levels
- Hot swap additional signals
- Insertion & extraction sequences

#### **THE NON-TRANSPARENT 21554 PCI-TO-PCI BRIDGE**

- Address decoding
- Data path inside the bridge
- Consequences of PCI transaction ordering rules
- I2O specification objectives, implementation in the 21554

## Renseignements pratiques

**Duration :** 1 days  
**Cost :** 700 € HT



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