



**Boards & Solutions  
made by**

**powerB**ridge  
C o m p u t e r



- Founded in 1993
- Headquartered in Burgwedel / Hannover
- Privately owned
- ISO 9001:2008 and 14001:2009 approved
- Products from world leading manufacturers
- Lab and integration facilities for customer specific products and systems
- Development of custom boards & solutions
  - for CPU boards
  - for I/O boards & modules
  - for FPGA HW and SW design (Xilinx or Altera)
  - for DSP HW and SW design (TI)
- Application development, installation & testing



## 3rd Gen Core i7 AMC CPU design

- Dual-Core i7-3555LE or Quad-Core i7-3612QE
- PCI Express Gen 1, Gen 2 or Gen 3 support
- Up to 16GB DDR3-1600 DRAM with ECC, soldered
- 2 GbE ports in front and 2 to ports 0+1
- Up to 2 SSDs onboard with RAID 0+1
- MTCA.4 compliant Zone 3 I/O as build option (PCIe x8 or legacy I/O)
- DisplayPort, COM and 2 USB 3.0 in front



## Low ripple & noise AC power Module, 1.000 W

- 1.000 W output power
- Double 2x full-size (12HP) PM
- Incl. Managment
- Max. load / channel: 80W / 7.6A
- Hot swappable N+1 output redundancy
- Ripple & noise < 100mV
- Readout for every channel in preparation





## 2U 19" 6-Slot MTCA.4 compliant crate

- Small & easy to use crate in 2U only
- PCI Express Gen 1, Gen 2 or Gen 3 support
- Double Full-Size MCH Slot
- Double Full-Size PM Slot
- 2 Double Mid-Size AMC slots
- 4 Double Mid-Size MTCA.4 compliant AMC slots with Rear-I/O
- Cooling from front to left
- Applications:  
machine (Klystron) protection, NRF and SRF configurations

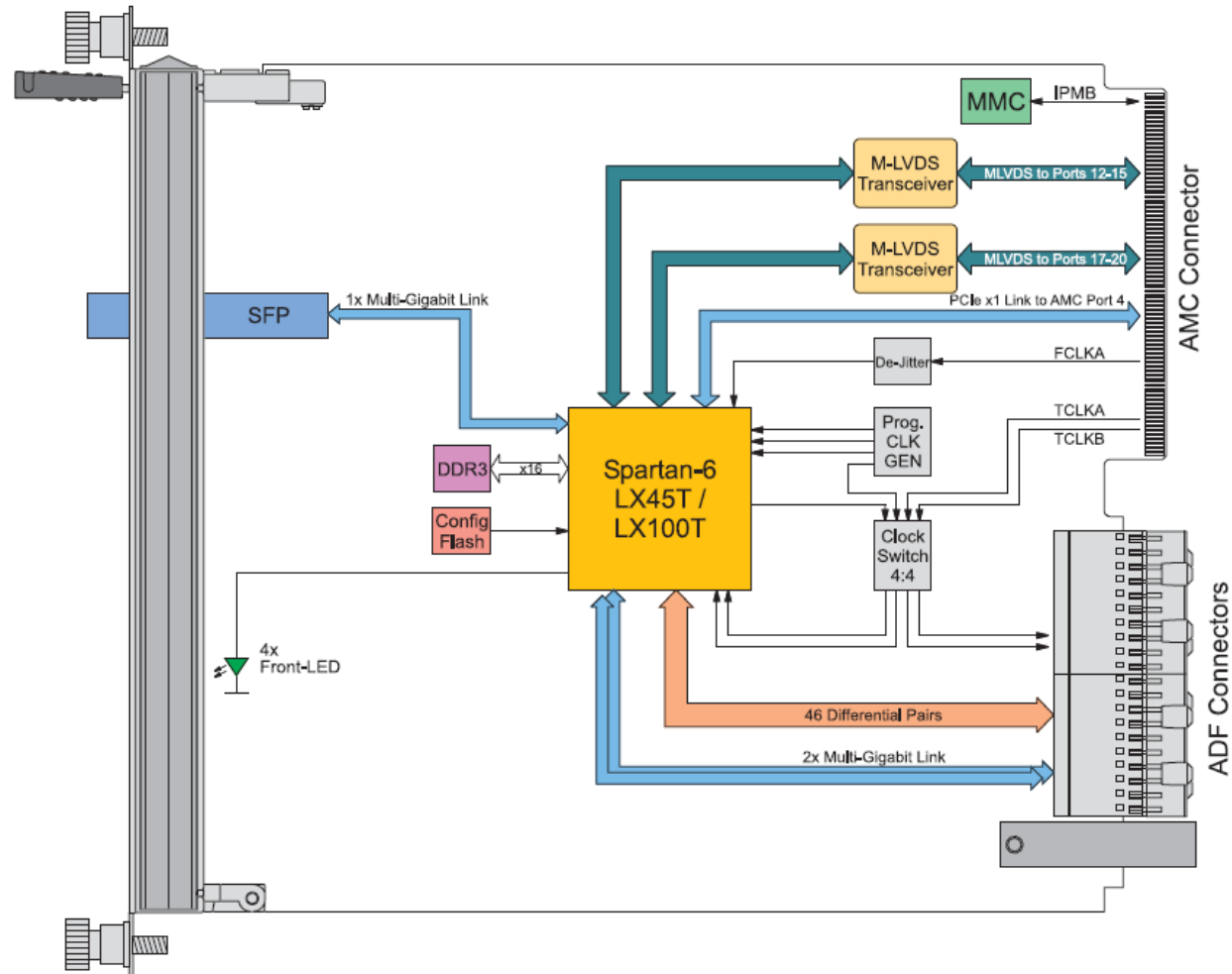


## 9U 19" 12-Slot MTCA.4 LLRF crate

- 12 MTCA.4 AMC slots
- PCI Express Gen 1, Gen 2 or Gen 3 support
- 2 Double Full-Size MCH Slots, redundant operation
- 4 Double Full-Size PM Slots, 4x600W or 2x 1.000W AC PM
- Cooling from bottom front to top rear
- RF backplane mounting behind MTCA backplane
- Rear slot for LO-generation (uLOG) and 15V PU



## Spartan-6 FPGA AMC, MTCA.4 compliant rear-I/O



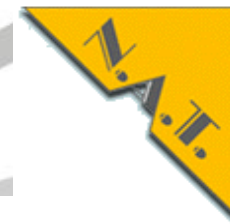
High speed and very high speed digitizer AMCs, MTCA.4 compliant

- 200MSps up to 20GSps
- 8-bit to 16-bit
- 1 to 8 channels
- AC or DC coupling
- Virtex 7 FPGA
- Small management processor for easier board handling
- More information on request





...the network for your success !



## Pre-certified MTCA.4 Starter Kits for rapid prototyping

- 6-, 7- and 12-slot crates (LLRF version optional)
- Up to two 320W AC PSU in 6-slot crates
- 600W AC PM in 7-slot crate
- Up to four 600W or two 1.000W AC PM for 12-slot crates
- NAT-MCH with support for 12-slots with GbE, PCIe Gen 3 4 lanes to every slot, Spread Spectrum Clock
- 2nd or 3rd Gen i7 AMC CPU, 4GB to 8GB memory
- Disc AMC or storage mounted on CPU AMC
- Complete integrated & tested, with certificate



... how can we help you ?

***Let's discuss your requirements and test our performance!***

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