

**European
XFEL**

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- The European XFEL is a research facility currently under construction in the Hamburg area, Germany. From 2015 on, it will generate extremely intense X-ray flashes to be used by researchers from all over the world.
 - The X-ray flashes will be produced in a 3.4-kilometre-long facility. Most of it will be housed in tunnels deep below ground. Three sites provide access to the tunnels and the experiment stations.

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Several accelerator labs developed an extension for the MicroTCA standard together with industrial partners within the PICMG organization. This new MTCA.4 standard adds the required IO, clock and trigger capabilities to the telco dominated basic specifications. This paper describes the unique technology for high resolution and high performance front-end data acquisition and control. MTCA.4 provides comfortable sized Rear Transition Modules, high-speed serial communication, precision clock distribution and full management. This makes it an ideal choice for high precision analog IO in large installations. The European XFEL project is based on this new standard and several other labs are in a prototyping or evaluation phase.

The Bill English



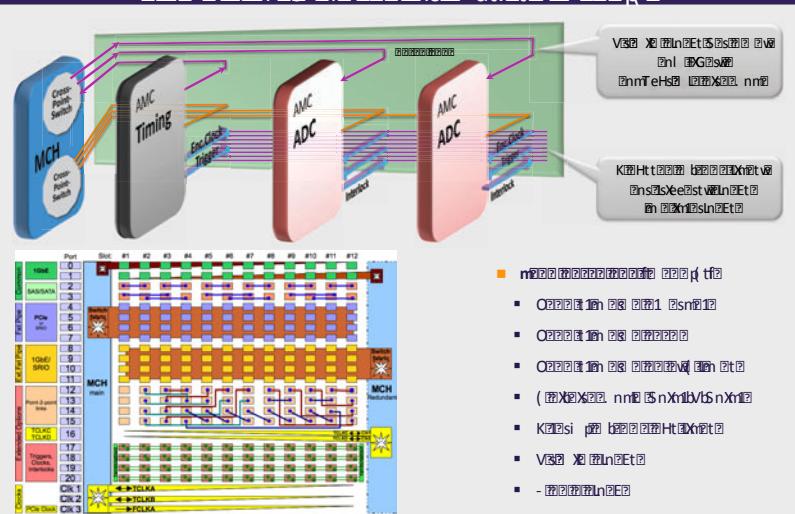
 xtCA Crate Server
automatic configuration from IPM



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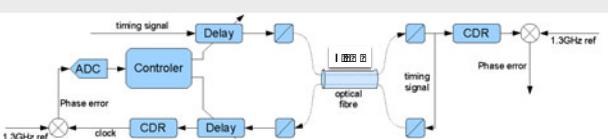


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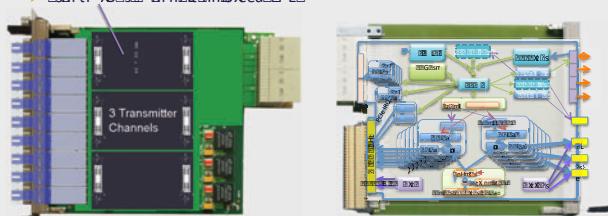


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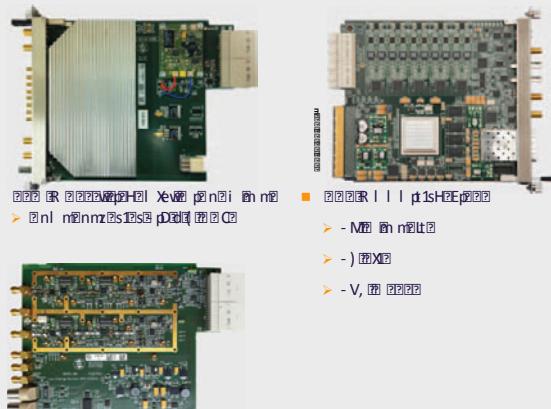
- **DPS 2 C2P2es tB**
 - **Lineare Xl** **StDGe2e**
 - **Parallelschaltung** **Sentz nm**
 - **Unterstützung**
 - **Espresso** **mit dem** **Programm**
 - **Zentrale** **Best**
 - **Hin** **das** **esn** **die** **elektro**
 - **Paralleles** **sitz** **snz** **bit**
 - **GrassHS** **st** **h** **bit**
 - **Espresso** **mit** **Paralleler** **Hilf** **ES** **in** **ES**
 - **Paralleler** **ES** **in** **ES** **in** **ES**
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- **Øttenhøst tønnesnøs**
 - > ØnHøstXønnesnøs



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