

# D-TACQ Solutions

## High Performance Simultaneous Data Acquisition





Model	Channels	Sample Rate (per Channel)		Resolution
ACQ164CPCI	64 / 32	128	kHz	24 bit
ACQ196CPCI	96 / 64 / 32	500	kHz	16 bit
ACQ132CPCI-02C	32 / 24 / 16	02/03/04	MHz	14 bit
ACQ132CPCI-32F	32 / 16	(oversampling) 2	MHz	16 bit
ACQ132CPCI-65G	32 / 16	(burst) 65	MHz	14 bit
ACQ216CPCI	16 /12/ 8/ 4	16/22/33/50	MHz	14 bit
AO32CPCI/ER	32AO,64DO	(AWG) 1	MHz	16/18 bit
Standards hased Intelligent modules Ethernet and Linux® on heard				

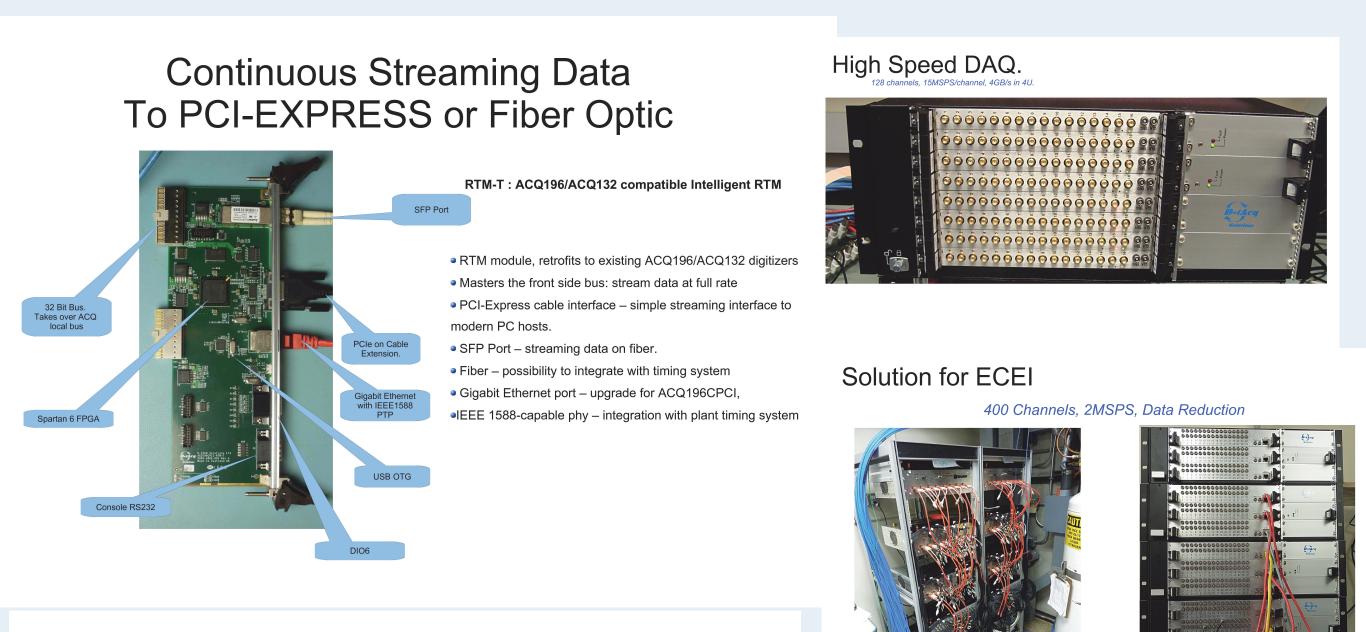
- Direct streaming to PCI-Express and optic fiber using RTM-T
- Industrial Strength protected Buffered differential Inputs.
- Digital and Analog triggers, Analog Outputs, FPGA DSP. Many Operating modes - Transient, Continuous, Gated, Control.
- High level software Integration embedded system supports EPICS, MDSplus, Web Services, SOAP, HTTP, FTP, SSH, SMB, Labview ...
- Low cost Autonomous Networked data acquisition appliances. Multi-function, self hosting EPICS systems, comprising D-TACQ and
- third party modules. Maximum payload in minimum shelf-space. One Gigabyte memory per Board on board.
- Simultaneous between channels, boards, chassis.

Lowest Cost Per Channel in Class





Mail: info@d-tacq.com / Tel: +44 1355 272511



#### Solutions for Plasma Control PCS

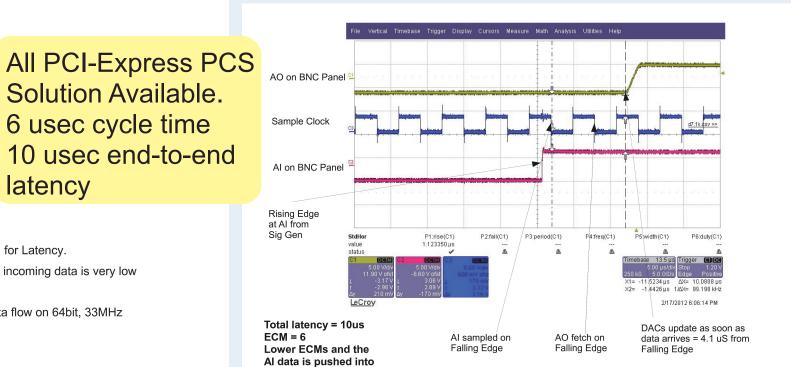
Multiple Simultaneous AI, AO, DO with lowest latency



Solution Available. 6 usec cycle time 10 usec end-to-end latency

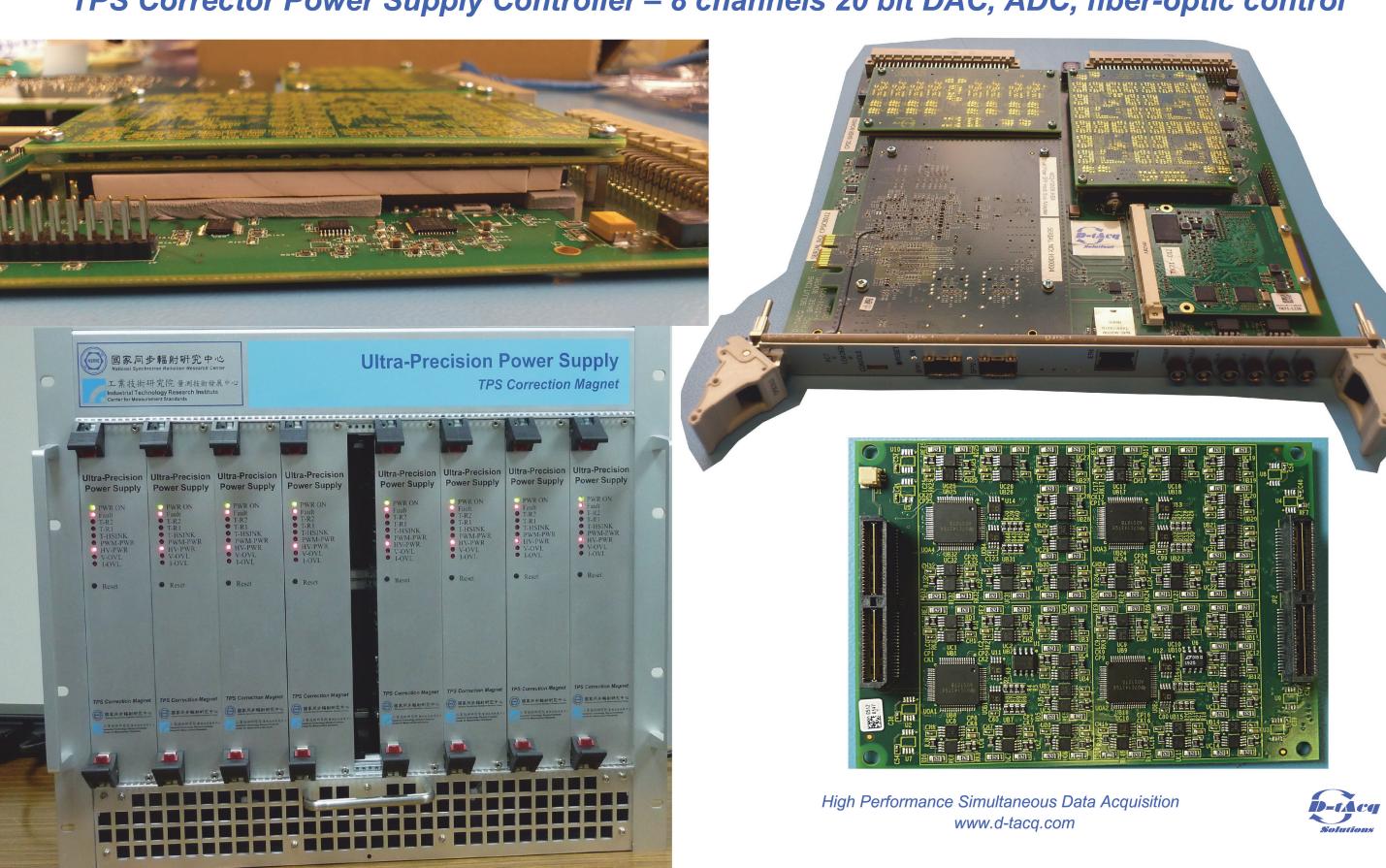
• CPCI backplane operation already used extensively for PCS. PCS applications are optimised for Latency. • Data transfer is under the control of the ACQ196, so cpu usage on the host system to handle incoming data is very low (<1% per card), leaving 99% of cpu resource free for data processing, including storage. Scaleable implementation eg: 4 x ACQ196, 384 channels, 250kS/s/channel, 200MB total data flow on 64bit, 33MHz

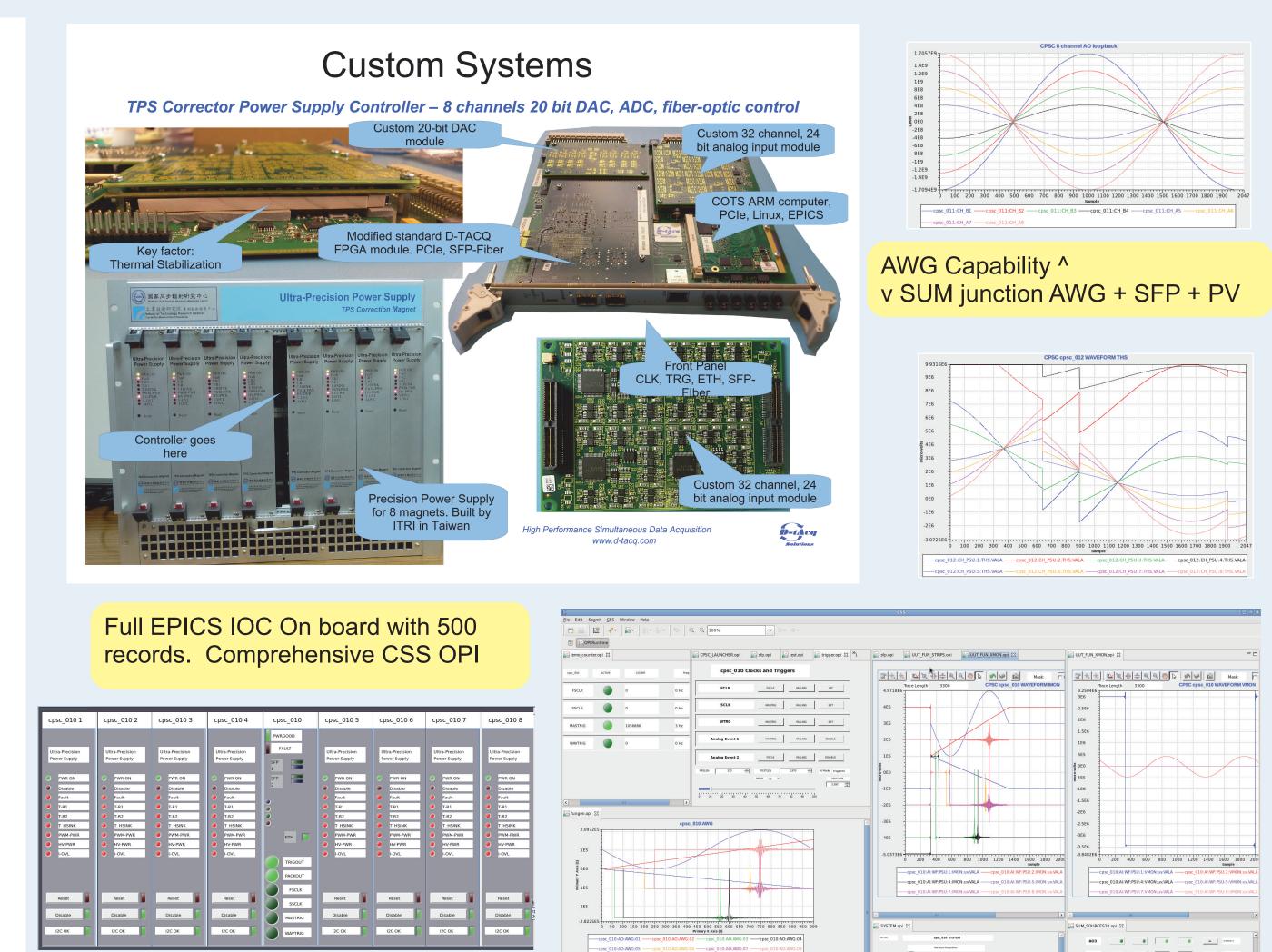
PCS system solution used on at least 7 tokamaks world wide



### Custom Systems

TPS Corrector Power Supply Controller – 8 channels 20 bit DAC, ADC, fiber-optic control

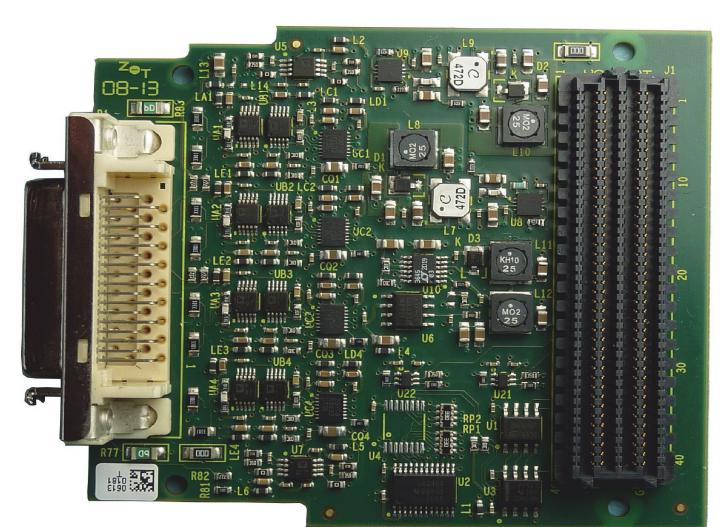




## High Performance Modular Data Acquisition

### ACQ400 Series

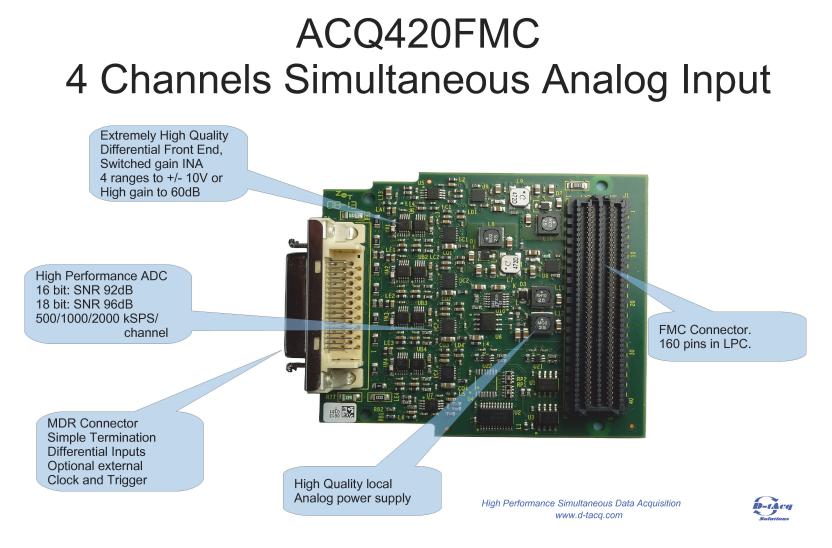
- New series of FMC Modules and Carriers
- FMC Provides a simple standard way to connect IO to an FPGA with low overhead.
- D-TACQ modules allow IO customization without compromising analog quality.
- ACQ420FMC: 4ch, 16/18 bit to 2MSPS, now shipping AO420FMC, 4ch output, 16 bit to 1MSPS, in
- development.
- A range of modules with additional capability is planned, as well as a range of FMC carrier boards in both CPCI and Networked Appliance formfactors.



High Performance Simultaneous Data Acquisition www.d-tacq.com



ACQ420FMC
Works with
ZEDBOARD,
Low cost evaluati
board.
D-TACQ carrier
boards
recommended fo
deployment
COMING SOON



Recommended Host: ZYNQ

