

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

32-Channel DDC Installed Core with Quad 200 MHz, 16-bit A/D

Model 7152 PMC/XMC • Model 7252 6U cPCI • Model 7352 3U cPCI • Model 7652 PCI

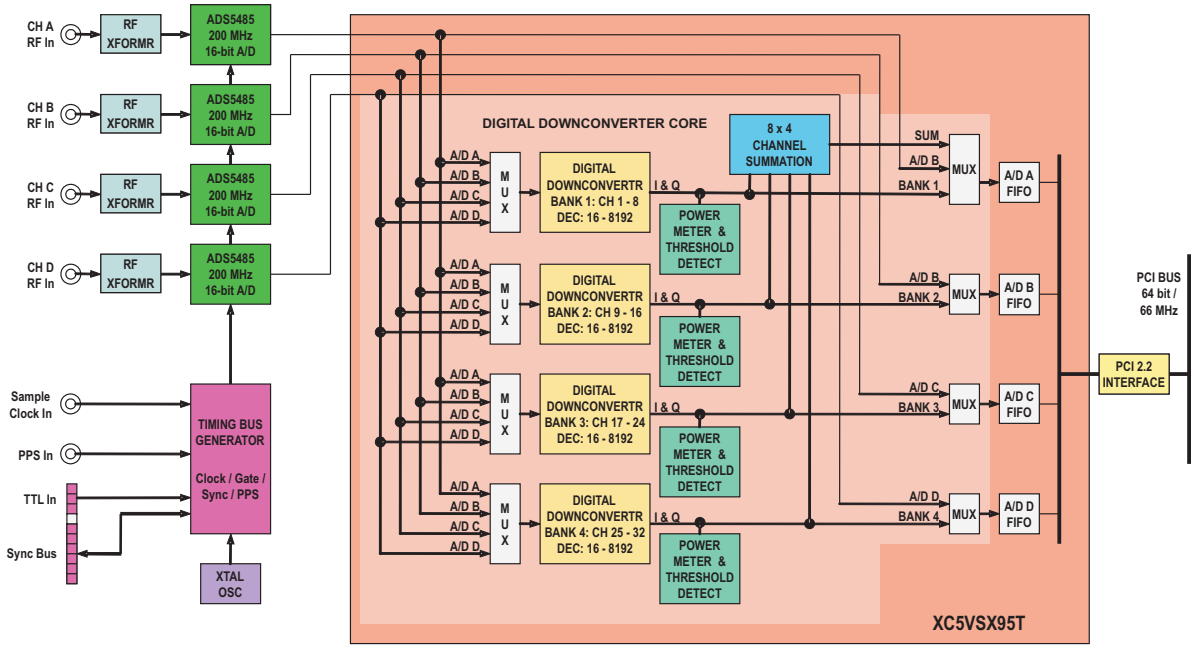


Figure 40

The Model 7152 PMC module is a 4-channel high-speed digitizer with a factory-installed 32-channel DDC core. The front end of the module accepts four RF inputs and transformer-couples them into four 16-bit A/D converters running at 200 MHz. The digitized output signals pass to a Virtex-5 FPGA for routing, formatting and DDC signal processing.

The Model 7152 employs an advanced FPGA-based digital downconverter engine consisting of four identical 8-channel DDC banks. Four independently controllable input multiplexers select one of the four A/Ds as the input source for each DDC bank. Each of the 32 DDCs has an independent 32-bit tuning frequency setting.

All of the 8 channels within a bank share a common decimation setting that can range from 16 to 8192, programmable in steps of 8. For example, with a sampling rate of 200 MHz, the available output bandwidths range from 19.53 kHz to 10.0 MHz. Each 8-channel bank can have its own unique decimation setting supporting as many as four different output bandwidths for the board.

The decimating filter for each DDC bank accepts a unique set of user-supplied 18-bit coefficients. The 80% default filters deliver an output bandwidth of $0.8*f_s/N$, where N is the decimation setting. The rejection of adjacent-band components within the 80% output bandwidth is better than 100 dB.

Each DDC delivers a complex output stream consisting of 24-bit I + 24-bit Q samples. Any number of channels can be enabled within each bank, selectable from 0 to 8. Each bank includes an output sample interleaver that delivers a channel-multiplexed stream for all enabled channels within the bank. Gain and phase control, power meters and threshold detectors are included.

Versions of the 7152 are also available as a PCI board (Model 7652), 6U cPCI (Models 7252 and 7252D dual density), 3U cPCI (Model 7352). All these products have similar features.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP