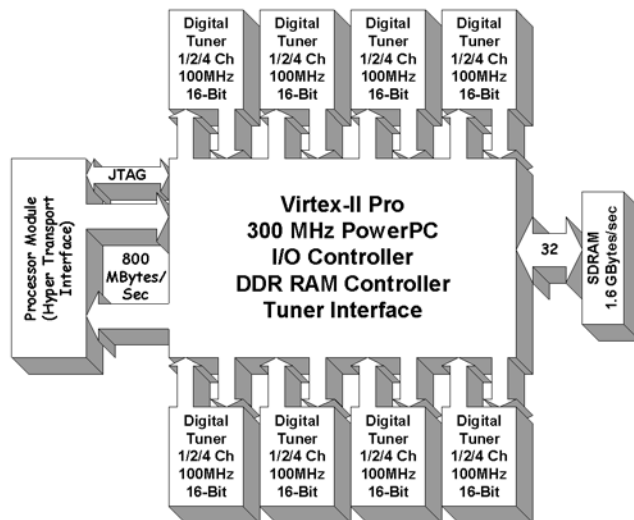


# The 4th Generation



## ICE-DTDM

The Digital Tuner Demodulator Module (ICE-DTDM) is the first module ready to tackle for your most demanding DSP application... All on a single PCI Card



This **D**igital **T**uner **D**emodulator **M**odule (DTDM) is the first processor module available for the ICE PIC4X PCI card. Additional processor modules will provide even more new capabilities to the ICE PIC4X card. These include; the Floating Point Processor Module (ICE-FPPM), the Programmable Logic Device Module with 5 Virtex-II Pros (ICE-PLDM), and the Data Distribution/Storage Module (ICE-DDSM).

# The 4th Generation



# ICE-DTDM

## Specifications

### Features

#### 1 - Virtex-II Pro

- ⇨ I/O routing
- ⇨ Filtering
- ⇨ Demodulator Look-up Tables
- ⇨ Bit Processing(22 GOPS)

### 32 Tuners / PCI Slot

#### 32 - Channels of digital tuning

- ⇨ 8 - 100MHz Digital tuners each with 4 Channels all with independant decimation
- ⇨ 100MHz Digital resampling preTuner at 200MSPS/28tap, or postTuner on each channel
- ⇨ Greater than 2000 channel realtime Frequency Division de-Multiplexing

### General Specifications

#### Dimensions and Weight

ICE-PIC4X 9.00 in. / 228 mm Length  
4.25 in. / 108 mm Height

Weight Approximately 1 pound with modules onboard

Power Consumption on PCI slot

(3.3 and 5volt inputs combined)

ICE-PIC4X 7 watts operating at 100Mbytes/sec

ICE-DTDM Approximately 10 watts operating at full processing speed

#### Environment Conditions

##### Storage Temperature

-10 to +60 degrees Celsius

##### Operating Temperature

0 - +40 degrees Celsius

##### Storage Humidity

20%-95% (non-condensing)

##### Operating Humidity

20%-80% (non-condensing)

Cooling : Fan and Convection cooling typical of desktop computer operating environments

#### I/O Connections Based on Modules used

##### Optical Modules

Fiber connection

##### Digital Modules

40pin high density AMF Ribbon to transition panel

##### Analog Modules

SMB on Module to BNC for external clock  
MMCX on module to BNC for analog input and analog output

