

# VIDEOTON Mérnöki Fejlesztő Kft

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- Established in 1997
- 5 full-time employees, highly educated electrical engineers
- Main activities:
  - Design, prototyping and small scale production of special equipment
  - Fullfillment of unique, special hardware/software requirements in the field of high frequency-high speed mixed signal processing including radiofrequency, analog baseband and digital processing steps

## Main development tools

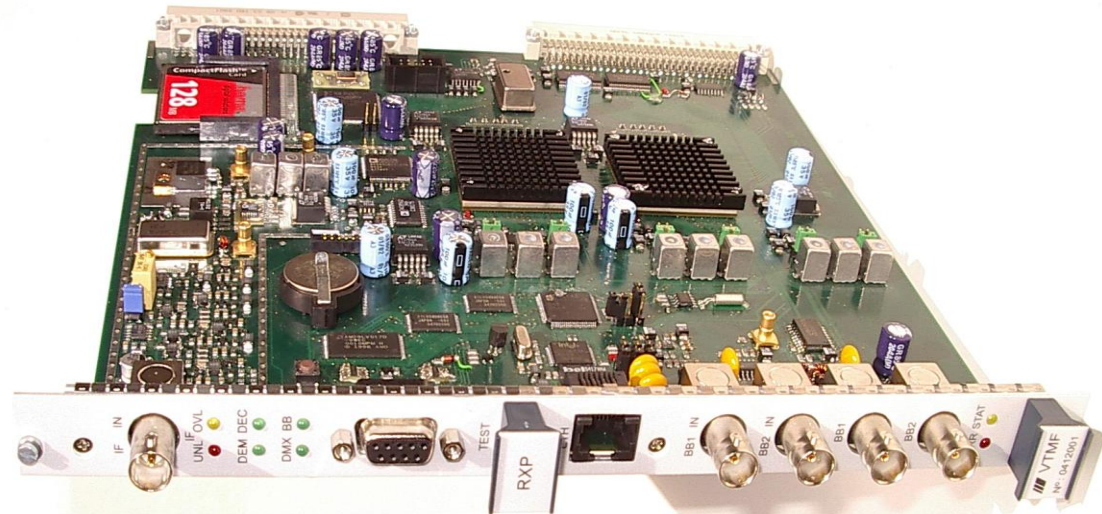
- BORLAND C++ Builder 6 Enterprise
- MATLAB/SIMULINK ver. 6 (+ Toolboxes)
- Mentor Graphics HDL Author and ModelSim
- PADS PowerPCB/PowerLogic
- Xilinx development tools

# Competences

- Analog and Digital Signal handling starting from RF frequency range
- Strong theoretical background in mathematics and signal processing
- Algorithm development
- Software development from embedded system up to system level
- Signal processing HW development and prototyping
- Integration into network environment

## Example: Digital demodulator prototype

- 210 MHz 12-bit IF sampling
- 2 pcs of XC2V3000 VirtexII FPGA
- CompactFlash for FPGA reconfiguration
- Network Microcontroller
- Ethernet interface
- TCP/IP



## Example: Digital demodulator prototype (cont'd)

- Direct Intermediate signal sampling
- General architecture (quadrature signal processing)
- High processing speed
- Implementation on FPGAs