Radar video is acquired from analog video sources using our dedicated PCI-based radar acquisition board. Running on standard PC hardware, this sophisticated RADARinterface Card features high speed sampling and DSP circuitry, allowing sampling rates up to 100 MHz and 12,000 range cells per radar beam while delivering 8 bit video resolution per sample. RADARserver reads the digitized radar video from the RADARinterface Card and transmits the data to any number of radar video clients over LAN/WAN via TCP/IP in real-time. The digitized radar video signal is compressed, meeting possible bandwidth restrictions. Compression is performed stepwise, auto-adaptively going from lossless to a lossy compression, if necessary. In case a digital signal is provided by a radar transceiver, RADARserver can be equipped with a special digital PCI RADARinterface Card to process radar video.
Highly adaptive analogue interface hardware
High performance concerning range, resolution, and accuracy (100 MHz sampling, PRF up to 10kHz)
High precision trigger synchronization
Auto adaptive signal compression
Reliable video transmission
Ordered Statistics CFAR filter
Scan-to-Scan filter
Standardized ASTERIX output interface
Supports remote monitoring and control of the radar hardware (SNMP)
Unlimited number of radar video clients, can be connected via existing LAN/WAN (no expensive extra fibre cabling is needed)
Proven in more than 200 installations