

bridges the distance

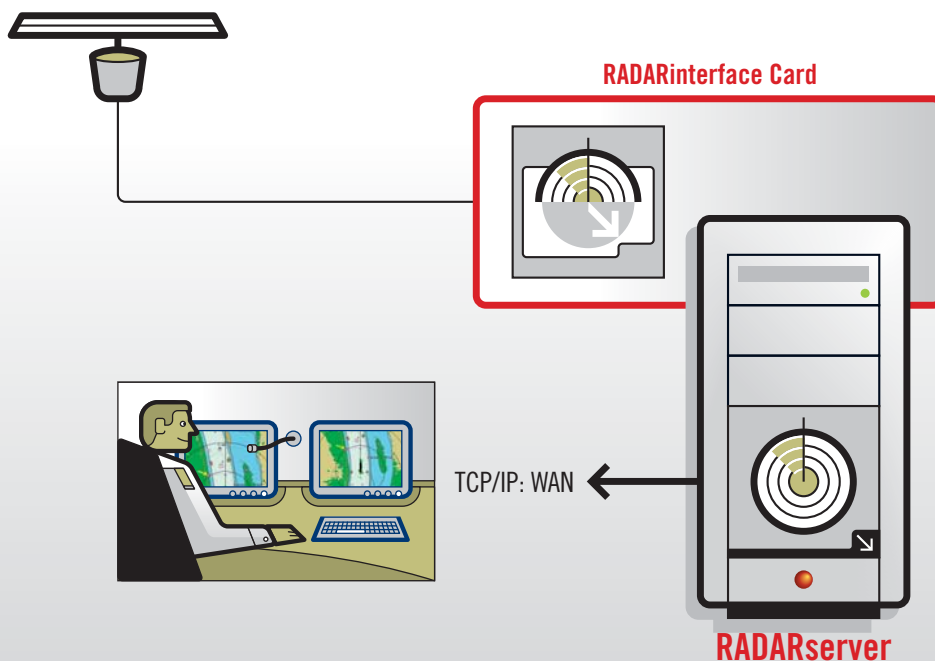
# RADARserver

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.

## Sample configuration of RADARserver



## PCI RADARinterface Card



### Highlights

- *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*



Further information about recent developments of innovative navigation systems can be found on the homepage: <http://www.innovative-navigation.de>

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