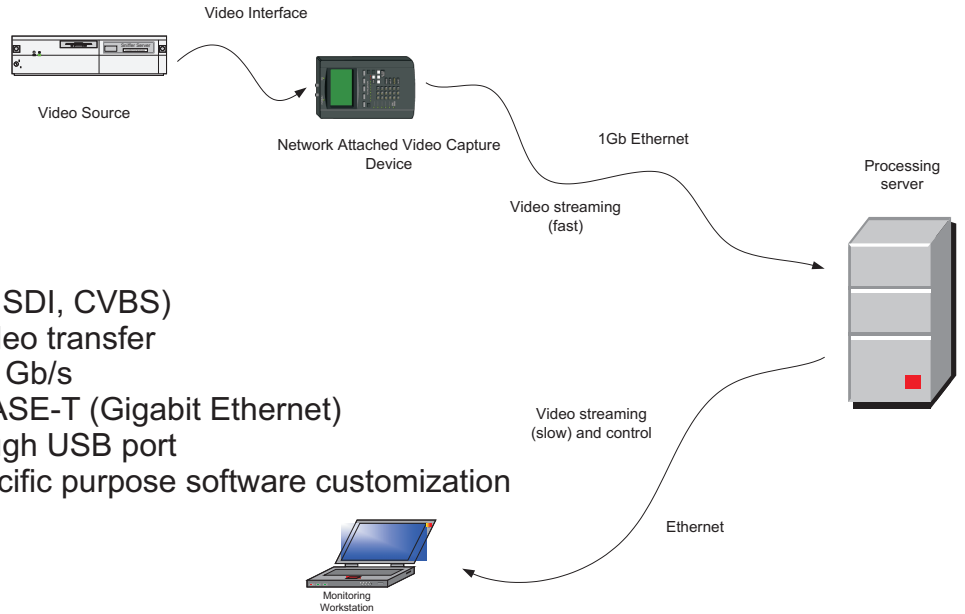


## RT-AV100 - NAViC NETWORK ATTACHED VIDEO CAPTURE

NAViC is a standalone device for real-time capturing and streaming of audio and video signals up to 1080i @60Hz. Basically, it was developed due to the lack of suitable interfaces on IBM's QS20 system based on Cell Broadband Engine™ processor.

It is DSP based device with numerous audio/video inputs featuring on-the-fly lossless video compression (up to 1:3 factor).

NAViC supports libraries for optimized compression (DSP) and decompression (Cell/B.E), high performance control and data streaming network protocol (DSP, Cell/B.E, PC, Windows/Linux).



## FEATURES

- DSP based platform
- Custom video source (HDMI, SDI, CVBS)
- 1080i60 real-time lossless video transfer
- High data rate of HD video ~1Gb/s
- Network connectivity: 1000BASE-T (Gigabit Ethernet)
- Firmware customization through USB port
- Full product support and specific purpose software customization



NAViC front view



NAViC rear view

## SPECIFICATIONS

**Dimensions:** 24x18x6cm (LxWxH)

**Power consumption:** ~10W (~2A @ 5V)  
PoE device according to IEEE 802.3af

**Digital video interfaces supported:**  
SD/HD-SDI  
HDMI

**Analog video interfaces supported:**  
Composite video  
S-Video  
Component video

**Video Inputs:**  
HDMI  
CVBS  
S-Video  
YCbCr

**Audio Inputs:**  
S/PDIF  
Analog Stereo

**Output:** 1Gbps Ethernet

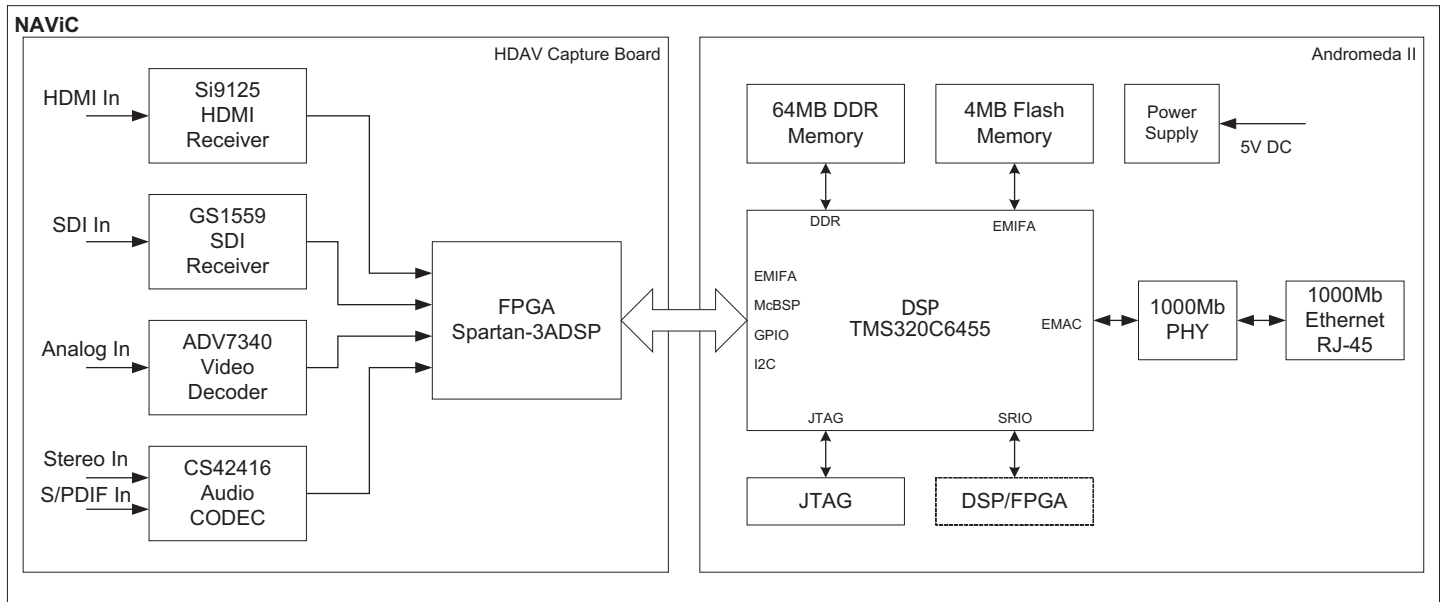
## SUPPORTED FORMATS

**SD (Standard Definition)**  
576i50  
480i60

**ED (Enhanced Definition)**  
576p50  
480p60

**HD (High Definition)**  
720 p 50 / 720 p 60  
1080 p 25 / 1080 p 30  
1080 i 50 / 1080 i 60

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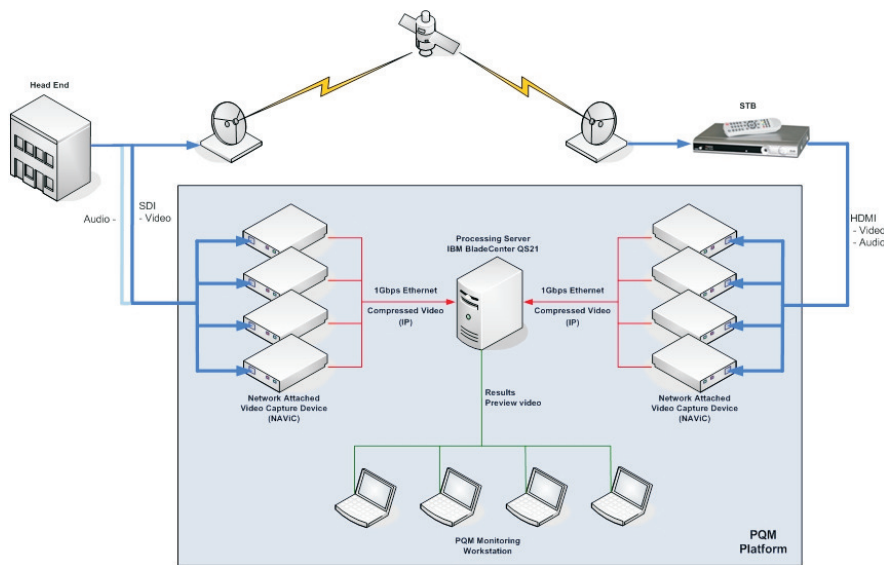


NAViC block diagram

## STANDARD PACKAGE

NAViC (Network Attached Video Capturing) can be used as standalone device or as a part of our testing solution PQM - Picture Quality Meter.

Following illustration depicts NAViC function in PQM platform.



## SIMPLE USAGE

Plug-in input video stream in raw format (SD or HD)

NAViC captures video, applies lossless compression and streams it to the processing server

Server processes video in order to determine video quality and streams the quality results and downscaled video to the monitoring station

Remote PC station controls the system and monitors video quality

## BUSINESS MODELS

The RT-RK offers flexible business models to all existing or future clients including IP licensing, fixed price and time & materials business models.

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