



**SOFTLAB-NSK: 30 YEARS
AT THE BROADCAST AUTOMATION MARKET**



Briefly about SoftLab-NSK

- SoftLab-NSK is a Russian IT company located in Novosibirsk city.
- Foundation year - 1991.
- Main directions of activity:
 - Development of software and hardware systems for the automation of TV broadcasting and TV production;
 - Creation of AR / VR applications, simulators, virtual expositions and computer games



SoftLab-NSK Clients on the World Map



- Our TV broadcast and TV production solutions are used by over **1,000** broadcasters in **65** countries.
- More than **50** dealers from **32** countries of the world cooperate with us, including China, Indonesia, Hong Kong, India, Hungary, Czech Republic, Romania, Malaysia, Thailand, Vietnam, etc.



We Have Solutions for:

- **Broadcast Automation**
 - multichannel playout;
 - insertion of regional advertising ;
 - TV channel branding;
 - overlays and titles management;
 - broadcasting with a time shift;
- **Multi-channel recording**
- **Live TV production**
 - Focus virtual studios;
 - All'Mix software video mixer;
- **Sports broadcasting**
 - slow motion video replays;
 - sports titles.
- **Video referee**



SoftLab-NSK Products – are Hardware-Software Sets

- Most of SoftLab-NSK products include software and hardware components.

FORWARD T 



- Software and hardware are developed by SoftLab-NSK engineers and programmers in close cooperation with each other.
- Thus, our software is developed specifically for our boards, and our boards - for our software, which contributes to the high quality, reliability and efficiency of our products.



FDExt Series I/O Boards

- Own design and production boards.
- At present we manufacture and offer to users the following board models: FD922, FD940, FD722, FD720, FD788.
- We are constantly developing new boards that meet the modern needs of the market.
- All boards undergo long-term testing before being sold.
- There is a program of preferential exchange of old-model boards for new models.



FDExt Series I/O Boards



FD922

Inputs / Outputs:

- 1 x HD-BNC in for sync source;
- 2 x HD-BNC SDI/ASI Inputs ;
- 2 x HD-BNC SDI/ASI Outputs.

Signal format:

- SD/HD/3G/6G/12G-SDI
- ASI



FD788

Inputs / Outputs:

- 1 x HD-BNC in for sync source;
- 8 x HD-BNC configurable Inputs/Outputs;

Signal format :

- SD/HD/3G-SDI
- UHDTV, ASI



FD722

Inputs / Outputs:

- 1 x HD-BNC in for sync source;
- 2 x HD-BNC SDI/ASI Inputs ;
- 2 x HD-BNC SDI/ASI Outputs.

Signal format :

- SD/HD/3G-SDI
- ASI



FD720

Inputs :

- 2x HDMI (type A)
- Signal format : HDMI



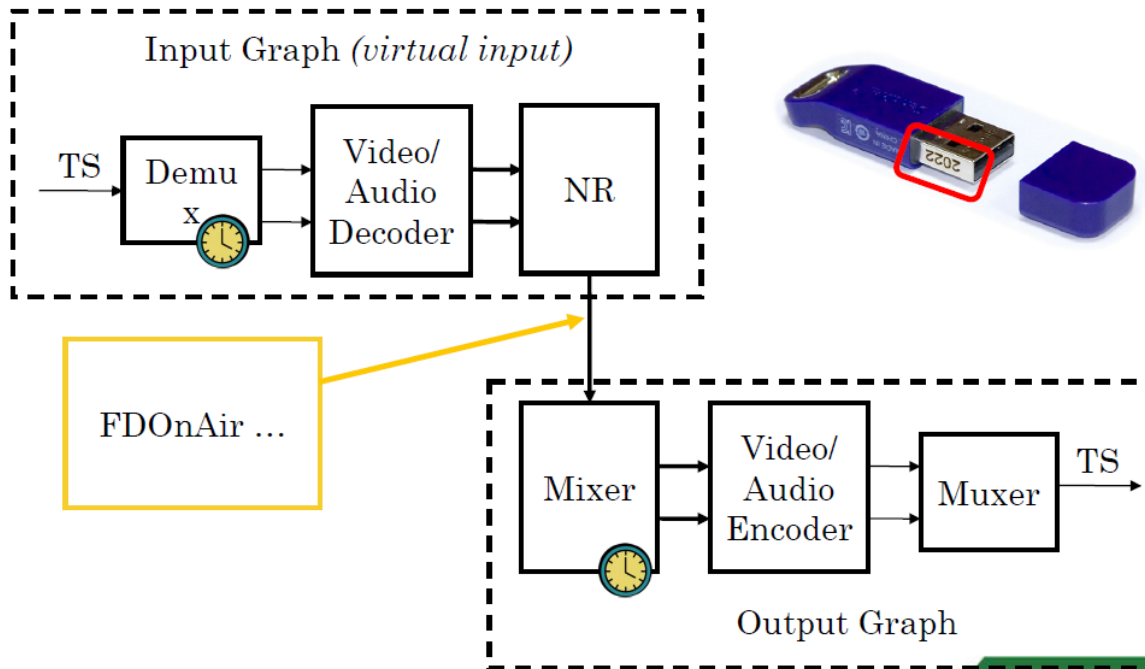
FD720

Inputs :

- 4x HDMI (type A)
- Signal format : HDMI



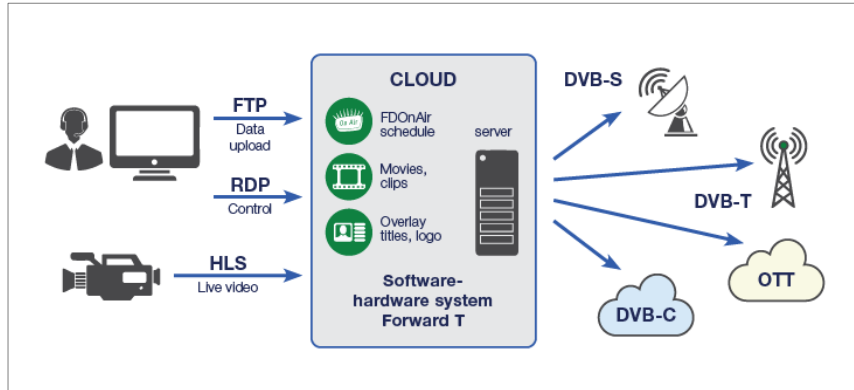
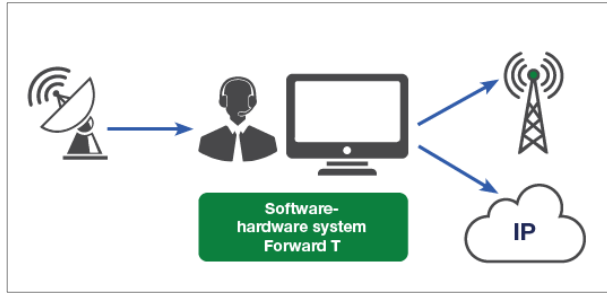
Virtual board





Broadcast Automation

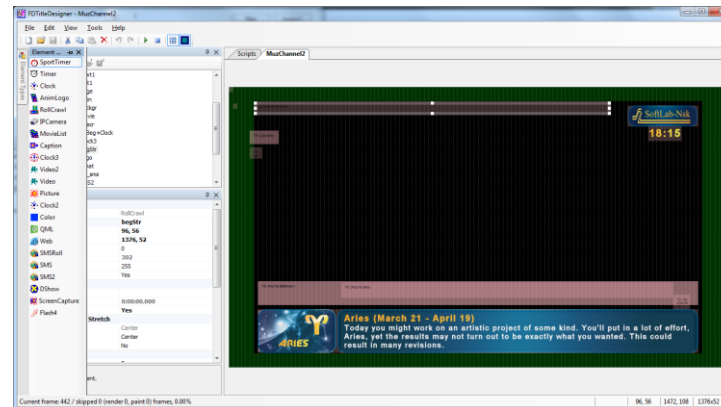
FORWARD T



- **Forward T** is a line of broadcast automation products.
- **Forward TA** is a flagship broadcast automation product, TV Channel-in-a-Box.
- Suitable both for organizing your own broadcasting, and for retransmitting the signal of the head-end station with regional inserts and overlaying titles.
- Local and cloud installations are possible.
- More than 500 channels were sold to Eastern Europe and Southeast Asia, including Afghanistan.



CG Overlays



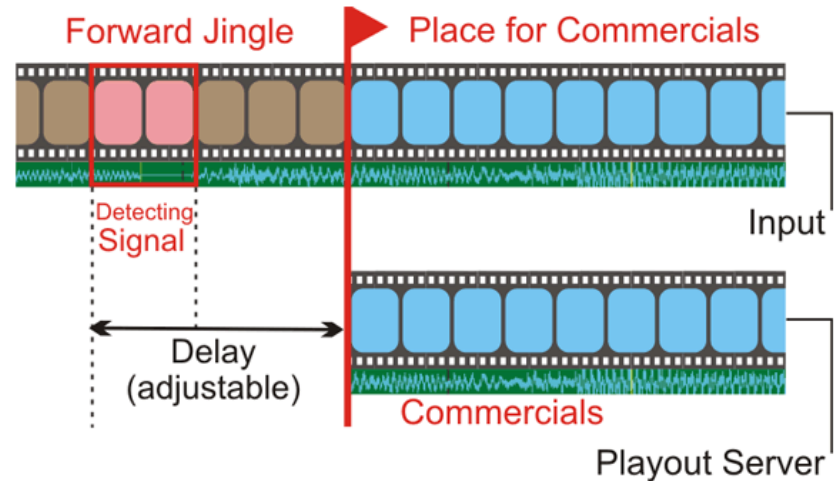
Forward T products includes a wide range of options for displaying in the overlays:

- logo (static, dynamic), crawl line, banners;
- current time, air temperature, and other dynamically changing information;
- subtitle;
- picture-in-picture (PiP) mode;
- QML animation;
- SMS chat;
- etc



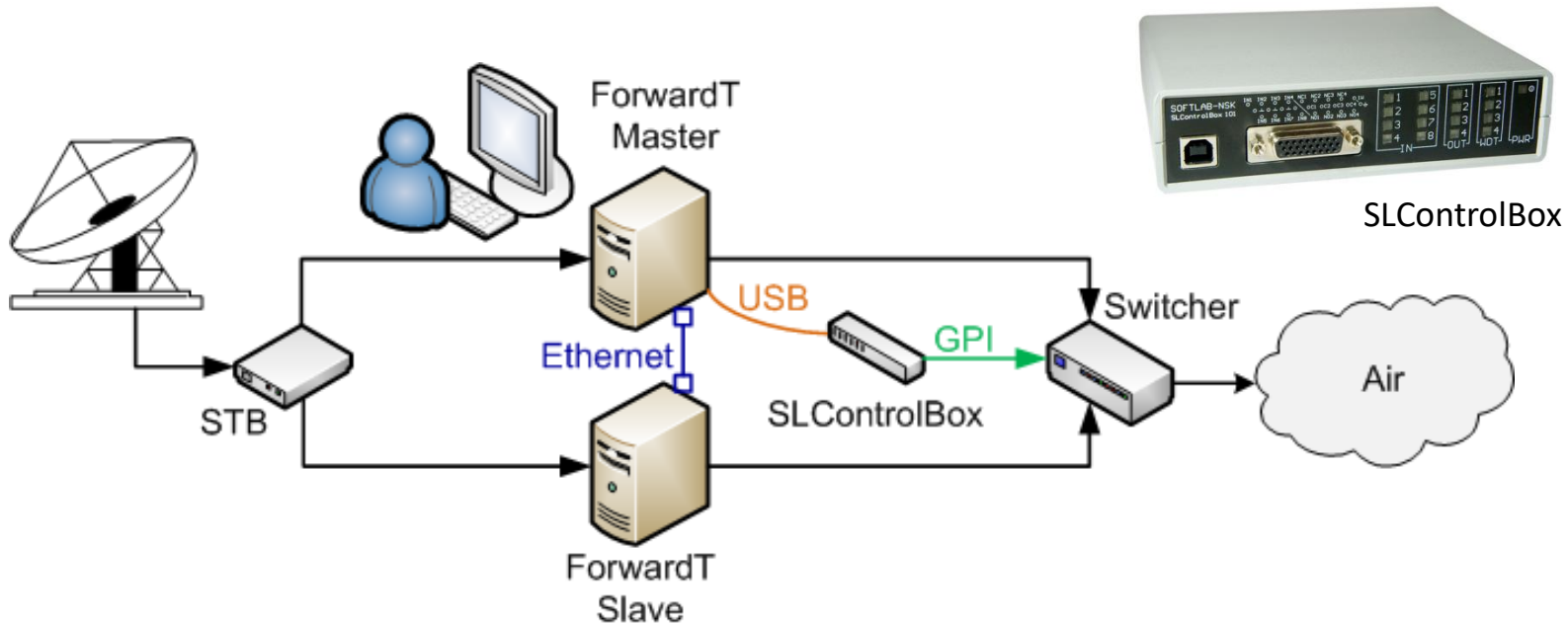
Regional Content Insertion

- **Auto Detect** – is a software option (plugin) for automation of local inserts into a retransmitted signal.
- It is possible to automate local insertion using signals of the following types:
 - DTMF tags;
 - musical fragment;
 - video fragment;
 - «23-line»;
 - Teletext (X31 teletext, Packet-31);
 - SCTE35.





Redundancy



8 GPI inputs

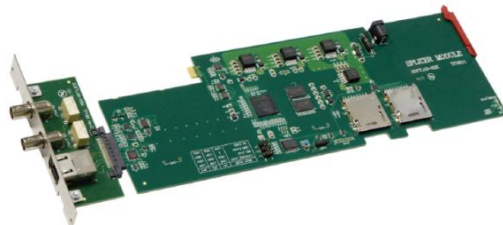
4 GPI outputs / 4 watch dogs



Regional Content Insertion

- **Forward Splicer** is for digital insertion of regional content into multiplex programs according to SCTE 35 / SCTE 118 standards:

- Hardware Splicer



- Software Splicer





Software TV Studio All¹ Mix



All¹ Mix is a software television studio installed on a computer.

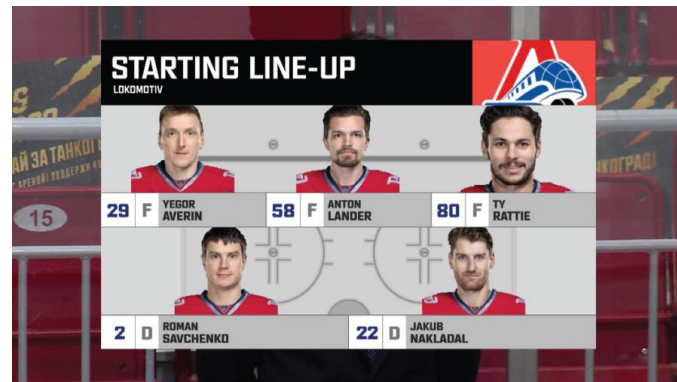


Sports Broadcasting

Forward Sports titles is a system for information and graphic design of broadcasts of sports events.

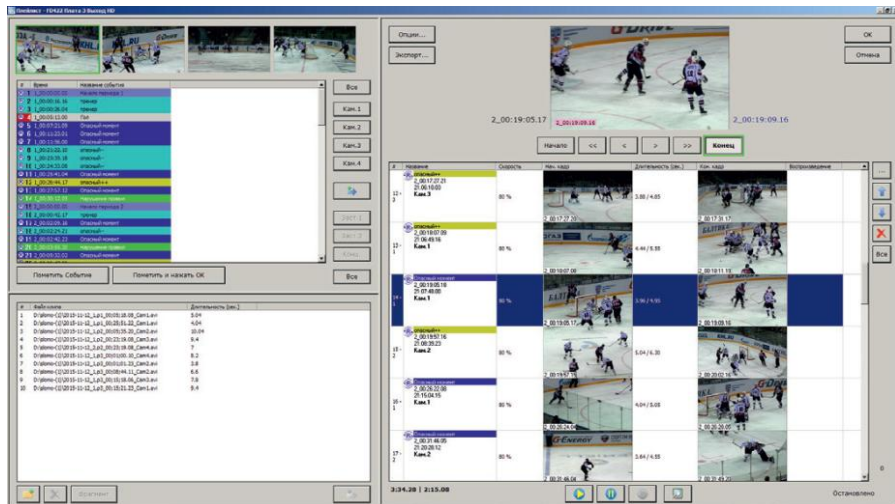
Systems are currently available for the following sports:

- hockey (design according to KHL requirements);
 - basketball (design according to FIBA requirements);
 - basketball (design according to VTB league requirements);
 - volleyball (design according to CEV requirements);
 - box (design according to WSB requirements).
-
- original design
hockey; football; volleyball; handball; MMA.





Sports Broadcasting



Forward Goalkeeper is a system for multi-channel recording and playback of slow motion replays on the air.

- from 2 to 24 recording channels;
- showing replays with a speed from 0 to 200%;
- reverse playback (reverse, speed from -100 to 0%);
- simultaneous recording to video files for quick editing;
- support for external consoles (JLCooper, DNF ST300, Shuttle Pro 2, X-Keys, etc.);



Forward Referee - Multi-channel System "Video Goal"



- Multi-channel recording (up to 32 HD cameras);
- integration with game boards (30 types);
- "Imprinting" the playing time into frames over the image;
- frame-by-frame viewing of recordings of all cameras simultaneously (50/100 images per second);
- support for high-speed cameras (100 fps);

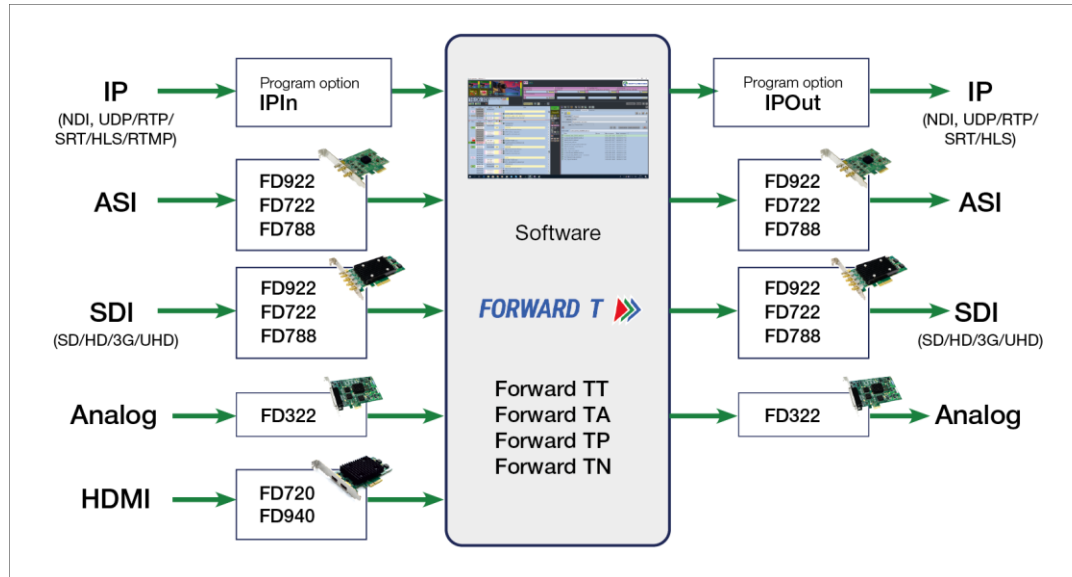
- automatic creation of a video report on selected moments of the game;
- storing archives of game recordings in full quality, without video re-encoding;
- synchronous unloading for multimedia systems of a sports facility;
- meets the requirements of the KHL (Russia).



Our Advantages

Flexibility

Using different boards of the FDExt series allows you to build systems with the same functionality for different types of video signals (analog, SDI, ASI, IP) and different resolutions (from SD to UHD).

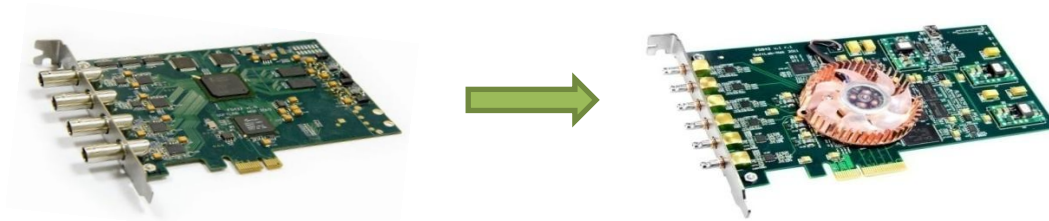




Our Advantages

Scalability

It is possible to expand the functionality of the available product, both within the purchased product (for example, adding an input/output channel, changing the broadcast format, installing plug-ins, etc.), or switching to another product of the line with more functionality.



4 channels to 8 channels



Our Advantages

Technical support

- By phone
- By e-mail
- Remote access (TeamViewer)



User guides

For most applications, user manuals have been developed in Russian and English.

The manuals are posted on our website in the "Documentation" section





Our Advantages

Purchase price

- Our products are completely manufactured in Russia (although imported components are used in the boards). We try to make our products available to broadcasters with different budgets.
- Before purchasing, at the request of the client, the board and software can be provided for a free trial period.

Investment preservation

- Free software update. Customers receive notifications of a new software release through the mailing list and can download and install updated software on their own.
- When switching from one product to another, the client pays only the difference in their cost.
- There is a program of preferential exchange of fees.



Exhibition Activities

- Every year we participate in leading international industry exhibitions and present our products to consumers in different parts of the world:
- CSTB.Telecom&Media Moscow (Russia)
- NATEXPO Moscow (Russia)
- NAB Show Las Vegas (USA)
- International Broadcasting Convention Amsterdam (Netherlands)
- Integrated Systems Europe Barcelona (Spain)
- Broadcast Asia Singapore
- Broadcast India Show Mumbai, (India)
- Convergence India New Daily (India)
- CABSAT Dubai (UAE)
- Golden Eye Tbilisi (Georgia)

