IntegrIT
Embedding ideas...

IntegrIT Technologies Ltd.

Signal processing for your devices

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Company Profile

- Cross platform NatureDSP Math libraries for high performance cores

- Software stacks for UHF/HF radios (APCO P25, DMR)

- High performance Voice/Video over IP - now together with TrueConf (www.trueconf.ru)

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Management team

Dmitry Paroshin, CEO and the founder.

M.S. in Telecommunications

In the company from the beginning. Now mostly organizes the cooperation with TrueConf for building up conference engine. Before he was a Principle Engineer in SpiritDSP

Alexey Nazarov, CTO and the founder

PhD in Antennas and Microwaves

Works since 2007. Before, he was a principal researcher in Opten Ltd, product manager in Luxsoft and the Head of Wireless Lab in SpiritDSP, Moscow

Borodina Natalya, Managing Director

M.S. in Finance

Joined recently in 2020

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Sk
ИТ

Brilliant Team

- established in 2006
- currently 12 engineers with up to 25 years experience in telecom

Main Expertise

- high performance processing for video, communication, AI, etc.
- Video-Voice over IP
- SDR

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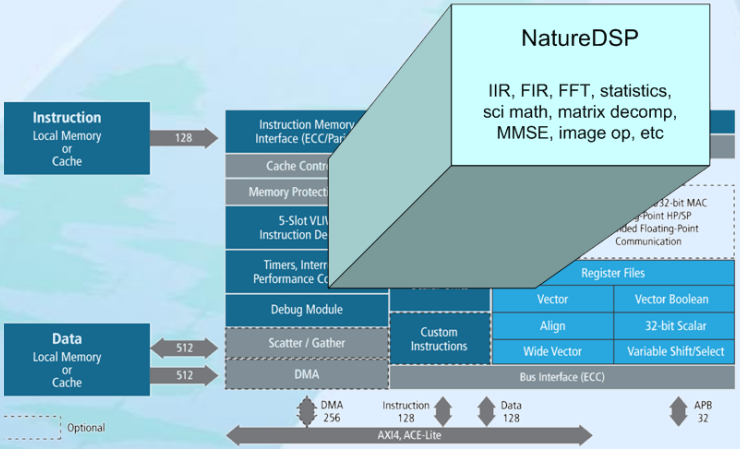
NatureDSP Libraries



- powerful set of math routines for numerous applications (>1k routines per library)
- filters, ffts, sci math, neural, image processing, matrix decompositions, etc.
- portable code – faster adaption to new devices
- ported and adapted to many Cadence cores – from simplest HiFi2 to very powerful B20 with up to 128 MAC/cycle
- supports all data types including modern half precision floating point
- highly optimized for every core
- powerful test engine and very big test set (10 Gbytes typ)
- strong validation methodology

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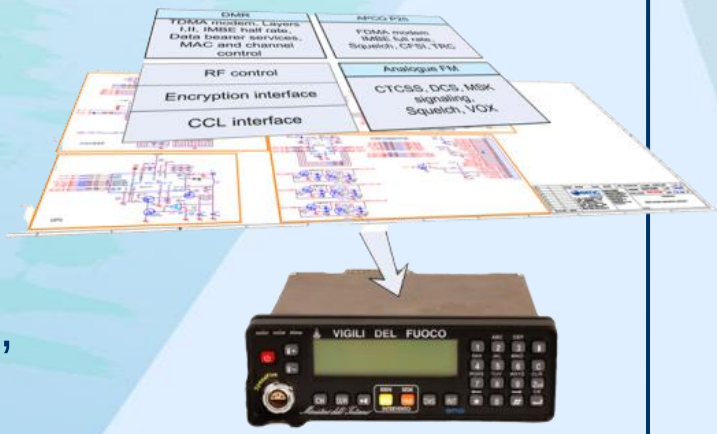
Software stacks for UHF/HF radios



- APCO P25, DMR and analogue FM radios
- field proven air interoperability with basestations and Motorola/Hytera radios
- all necessary protocol features (i.e. grop/individual calls, coding, squelch control, etc.) for trunking and conventional operation
- Tier I, Tier II for DMR
- mixed voice/data operation
- CTCSS/DCS/ETS300-230 MSK signaling for analogue voice
- full duplex support for repeaters
- robust equalization scheme for better sensitivity and selectivity
- full rate and half rate IMBE-compatible vocoders
- ported to TI, ADI DSPs

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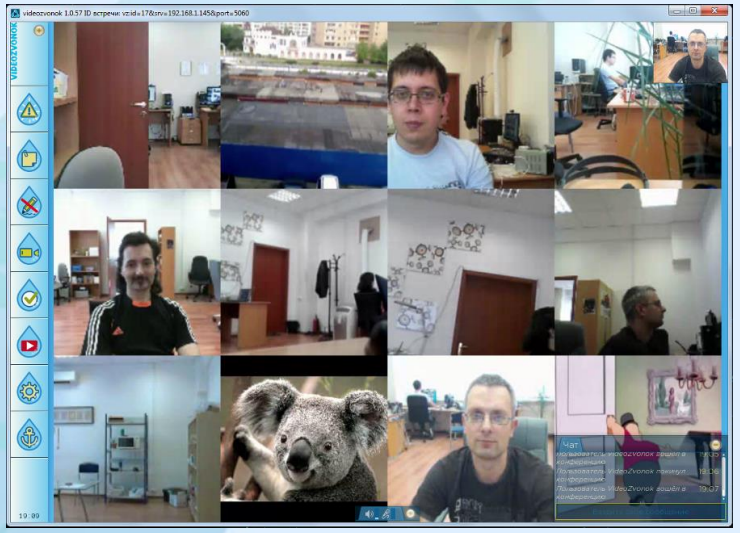
Video/voice over IP



- videoconference engine for MCU servers and endpoints
- supports numerous audio/video coding formats with automatic transcoding
- H.323/SIP signaling with second stream
- in-band remote and local camera control (FECC, VISCA)

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- supports numerous audio/video coding formats with automatic transcoding
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- ensures field interoperability with industry standard hardware (Cisco, Polycom, etc.) and many software MCU and clients
- layout control for each participant, presenter/symmetic layouts
- portable to many cores – from ARM and x86 to Elbrus and Cadence

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Sk ИТ

cadence

ИНСТИТУТ СЕТЕВЫХ ТЕХНОЛОГИЙ

PULSAR-TELECOM

работаем с 1991 года

emc
TECNOLOGIA ITALIANA, COMUNICAZIONE SICURA

ИТЭЛМА

2N
An Axis company

Viber
Connect. Freely.

zenitel
VINGTOR STENTOFON

Baudisch

SPECTRA ENGINEERING

TrueConf

tensilica

MARVELL

CYRACOM
How Interpretation Should Be

CIMARRON TECHNOLOGIES

eurotronik
Since 1962
With you. For you.

UT

TELUM

RF Technology

biscotti
TV PHONE

AOTEC

LG

oktell

г.Пенза
ПУЛЬСАР
ГРУППА КОМПАНИЙ

RigiSystems
Connected Solutions Services

Tripleton

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