

## Xtrx Sdr Chasing Pcie Performance Wordpress

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### **Xtrx Sdr Chasing Pcie Performance**

XTRX SDR: Chasing PCIe performance 33c3 / 27 December 2016  
Alexander Chemeris CEO, Fairwaves, Inc. Sergey Kostenbaev  
Head of engineering, Fairwaves, Inc.

### **XTRX SDR: Chasing PCIe performance**

XTRX - A high performance miniPCIe software defined radio (SDR) by Fairwaves. Designed for industrial GSM, 3g, 4g,5g and massive MIMO applications.

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## **XTRX - A Fairwaves tiny SDR - High performance Software ...**

The Fairwaves XTRX mini-PCIe SDR card, launched on Nov. 30 at Crowd Supply, is a low-cost embeddable SDR card aimed at high data rate apps including 4G/5G and “massive” MIMO. The company claims the full sized mini-PCIe XTRX card (30 x 51mm) is the smallest commercially available SDR card. Fairwaves, which is a small company with staff [...]

## **XTRX - A high-performance SDR in a mini PCIe form factor ...**

XTRX SDR in a mini PCIe A high-performance SDR in a mini PCIe form factor. Funding ends on Jan 15, 2018 at 03:59 PM PST (11:59 PM UTC). it's really that small! The XTRX is a high performance/high bandwidth software defined radio (SDR) board that is specifically designed to support innovations around high data rate applications like 4G/5G and massive MIMO.

## **XTRX A high-performance SDR in a mini PCIe form factor**

A high-performance SDR in a mini PCIe form factor Features & Specifications RF Chipset: Lime Microsystems LMS7002M FPRF FPGA Chipset: Xilinx Artix 7 25T/35T/50T Channels: 2 × 2 MIMO Tuning Range: 30 MHz - 3.8 GHz

## **XTRX - A high-performance SDR in a mini PCIe form factor**

XTRX SDR Mini PCIe Card Supports 10 MHz to 3.8 GHz Tuning Range, up to 120 MSPS Sample Rate Fairwaves is a startup that aims to make deploying and operating mobile networks in rural regions profitable, and their latest project is called XTRX, a high performance Software Defined Radio (SDR) board packed into a mini PCIe card form factor.

## **XTRX SDR Mini PCIe Card Supports 10 MHz to 3.8 GHz Tuning ...**

Late last month we posted about the Fairwaves XTRX SDR which is a Mini PCIE TX/RX capable SDR with 10 MHz - 3.7 GHz tuning range and 120 MSPS sample rate that costs \$199 US and is currently crowdfunding on CrowdSupply. At the time of this post the XTRX is currently 84% funded.

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## **Updates to the HF Performance of the XTRX SDR**

XTRX is the smallest easily embeddable software-defined radio (SDR). It is both affordable and high-performance. XTRX is designed to enable the next generation of wireless solutions, from prototype to production. Everyone designing an SDR-based product had to spend precious time and money on a custom design - until XTRX. Don't waste your time designing yet another SDR. Embedding XTRX into ...

## **XTRX Pro SDR - Elektor**

XTRX - A high performance miniPCle software defined radio (SDR) by Fairwaves. Designed for industrial GSM, 3g, 4g,5g and massive MIMO applications.

## **XTRX - A Fairwaves tiny SDR - Page 2 - High performance**

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XTRX Software Defined Radio Project. XTRX has 15 repositories available. Follow their code on GitHub. XTRX Software Defined Radio Project. XTRX has 15 repositories available. ...

xtrx\_linux\_pcie\_drv XTRX PCI driver for linux C 10 9 2 1 Updated Mar 20, 2019. sdrangel Forked from f4exb/sdrangel SDR Rx/Tx software for Airspy, BladeRF, HackRF ...

## **XTRX · GitHub**

"Fairwaves is a startup that aims to make deploying and operating mobile networks in rural regions profitable, and their latest project is called XTRX, a high performance Software Defined Radio (SDR) board packed into a mini PCIe card form factor."

## **XTRX | Crowd Supply**

XTRX is the smallest easily embeddable software-defined radio (SDR). It is both affordable and high-performance. XTRX is designed to enable the next generation of wireless solutions, from prototype to production. Everyone designing an SDR-based product had to spend precious time and money on a custom design - until XTRX. Don't waste your time designing yet another SDR. Embedding XTRX into ...

## **XTRX Pro SDR (Deluxe Bundle) - Elektor**

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XTRX Pro SDR . XTRX is the smallest easily embeddable software-defined radio (SDR). It is both affordable and high-performance. XTRX SDR is designed to enable the next generation of wireless solutions, from prototype to production. LTE modems and GPS receivers are commodity parts easily bought in any electronic components store and added to your project.

## **XTRX Pro SDR - HackmoD**

Building a high throughput low-latency PCIe based SDR Lessons learnt implementing PCIe on FPGA for XTRX Software Defined Radio ... each with its own quirks. In this talk we will look at the requirements for a high performance SDR like XTRX, how this leads to certain design decisions and share pitfalls and gotchas we encountered (and solved). ...

## **Building a high throughput low-latency PCIe based SDR**

The XTRX is an upcoming TX/RX capable SDR in a tiny Mini PCIe form factor. Mini PCIe is the expansion slot system used on some laptops. The SDR itself will be 2 x 2 MIMO, with a tuning range of 10 MHz - 3.7 GHz (down to 100 kHz with some degradation), and have a sample rate of up to 120 MSPS. It uses the LimeSDR RF chipset which provides most of the hardware required. The XTRX is not yet for sale, and is planned for a crowdfunding run on Crowdsupply 'soon'.

## **XTRX - rtl-sdr.com**

XTRX is the best platform for building SDR-based products and is designed for demanding embedded applications. The XTRX offers best in class performance with 2 x 2 MIMO, 120MSPS SISO/90MSPS MIMO and a compact form factor.

## **XTRX Pro SDR Platform by Fairwaves - Crowd Supply | Mouser**

The XTRX mini-PCIe embedded SDR card's Crowd Supply campaign is currently 80 percent funded, with 32 days left to reach its \$90,000 goal. The XTRX board by itself is available starting at \$199, with orders expected to ship by May 31, 2018 (shipping is free to the U.S. or \$10 elsewhere). Other offered packages include the \$79 USB adapter ...

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## **Low-cost embeddable SDR occupies a mini-PCIe card**

XTRX software is implemented in a modular way to support a variety of interfaces between an XTRX and a PC. Primary interface we're focusing on right now is PCIe. All RF parameters tuning and calibration is done on a host. Thanks to PCIe bus low latency this doesn't affect performance while making it much easier/faster to develop.

## **XTRX - XTRX Software Status Update | Crowd Supply**

XTRX is a miniPCIe compact Software-Defined Radio. This video explains how to assemble USB3 adapter for XTRX, which might be challenging if you don't have an assembled example. Happy Radio Hacking!

## **XTRX SDR USB3 adapter assembly video manual**

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