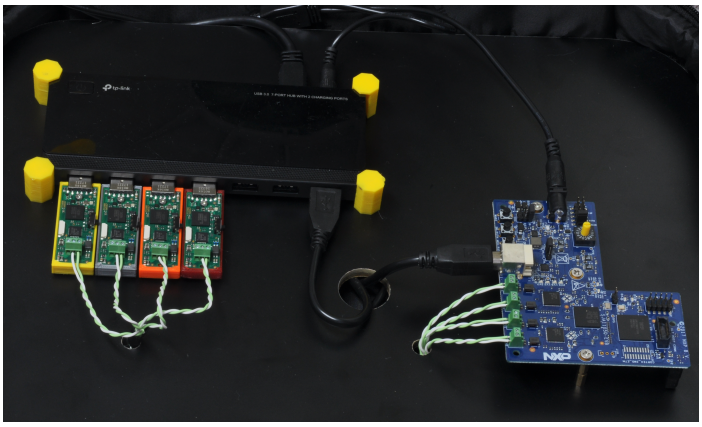
FC911



- 4xFC611 based on TJA1100
- 7-Port USB-Hub
- NXP SJA1105Q-EVB (includes 2x TJA1102)
- Full access to switch and all 8 Phys
- Flexible Software APIs

The 100Base-T1 Evaluation Kit for Automotive Ethernet. Compact and flexible Layer-2 validation, reference and test-setup

The FC911 is a pretty compact hardware design to focus and verify pure Layer-2 traffic between an Automotive Ethernet switch and 4 end nodes. All required hardware is fixed in a 15 inch notebook bag to be extended with a notebook as USB host and power-plug for 12 V adapter. Modular design enables quick start as reference and possibility to create and re-use at different setups using own ECU designs as DUT.

Features

- NXP TJA1100/TJA1102 Automotive Ethernet Phys
- Broadway2-API to get full raw access of all traffic
- Use NXP SJA1105Q Tool-SW for creating switch-hex files
- USB-centric access to switch and all 4 nodes
- UTP connections pre-configured for easy start
- Software API to access all features of TJA1100

Applications

- Starter-Kit to learn and validate NXP Automotive Ethernet
  - Full-access to SJA1105Q, TJA1102 and FC611/TJA1100 via USB
  - Configure and verify different switch profiles
  - Read/Write access to all phy connections via USB
- Test-Kit for different switch profiles
  - VLAN nodes
  - Policiy-Rules
  - Mirroring
  - ...
- Reference-Kit for own ECU-designs
  - verify switching rules
  - replace FC611 with custom ECUs

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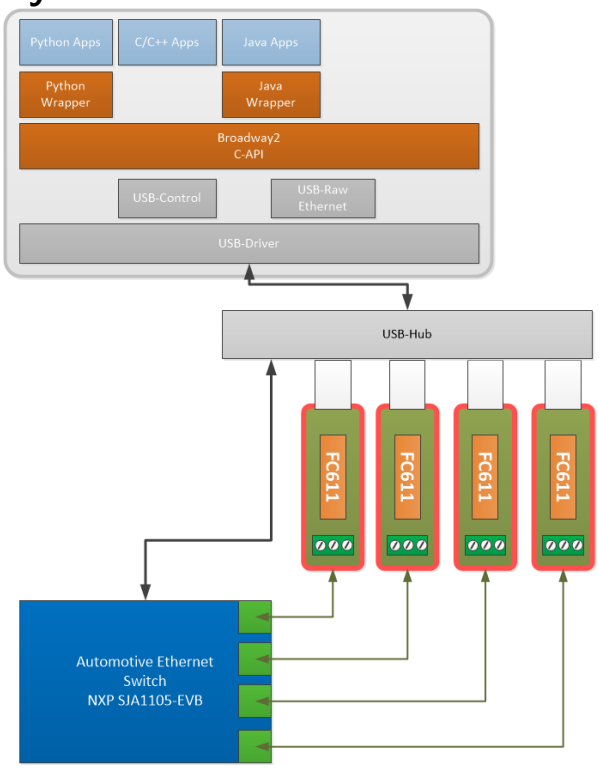
Technical Details

Basic information

- Pre-Configured Kit-Setup
- NXP SJA1105Q-EVB or SJA1105T-EVB
- 4xFC611 (using NXP TJA1100)
- Simple UTP connectors on all ports
- Powerful and flexible API for SMI Register Access
- Python modules to configure and access switch and phy
- Python abstraction class for TJA1100 MDIO registers

System-Overview



Typical use-cases

- Full network setup with focus on Layer2
- Low-Level switching traffic
- Extendendable with own custom designs
- Python tooling including MultiRawReceiver and MultiRawSender

Software

- Python access via USB to switch/phys and End-Points (FC611)
- Central access to all network nodes with one USB-host
- Running on USB-hosts: Windows 7/10, Raspberry Pi, Ubuntu, ...

More information at `www.fibrecode.com`

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