

- ▶ Trigger Extension for FibreCode USB Stick Raw
- ▶ Precise timestamped trigger input events related to Ethernet traffic
- ▶ Trigger output based on pre-configured Ethernet-Types

## Overview

The FC900701 Trigger Extension represents a hardware board used to extend the functionality of FibreCode USB Sticks Raw by external trigger input and output events.

A parallel cable is used to connect the FC900701 Trigger Extension board and the FibreCode 100BASE-T1 USB Stick Raw. For connection of external trigger signals the FC900701 Trigger Extension features simple to use screw terminals.

External trigger input events are timestamped in context with 100BASE-T1 Ethernet traffic. Trigger output events are generated on detection of configurable EtherTypes.

## Features

### Hardware

- ▶ Support for external trigger input and output signals
- ▶ Screw terminals for seamless connection of trigger signals
- ▶ Parallel cable for connection to USB Stick Raw

### Software

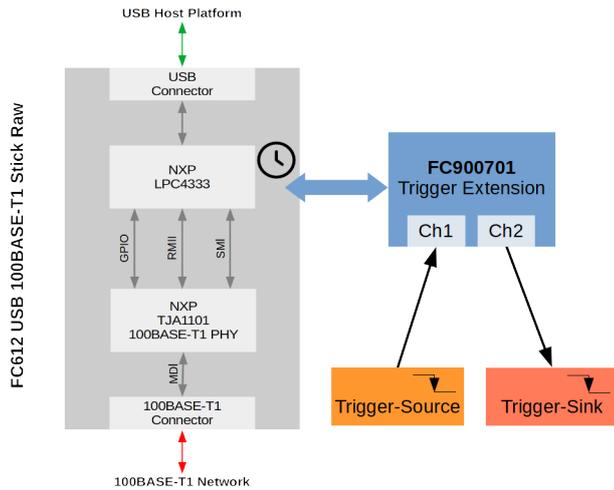
- ▶ Trigger input events timestamped in context with 100BASE-T1 Ethernet traffic
- ▶ Trigger output events generated on detection of configurable EtherTypes
- ▶ Python API to configure trigger input and output events

## Applications

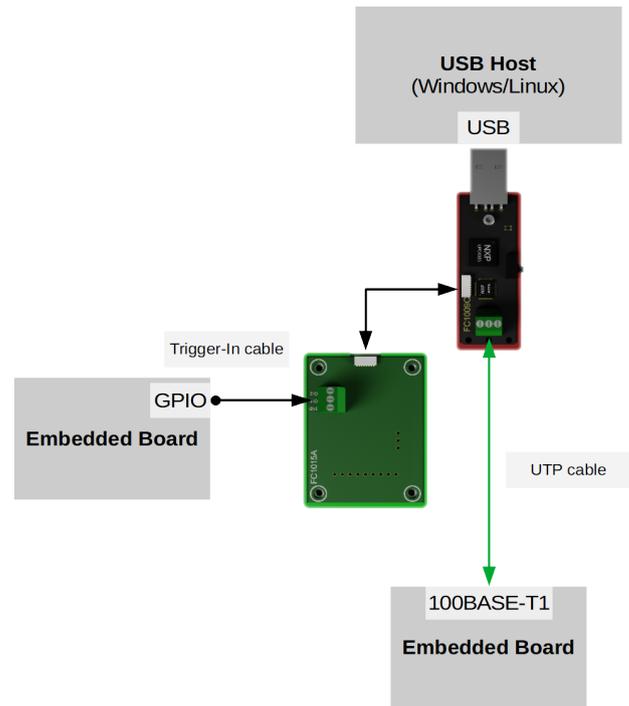
The FC900701 in combination with the FibreCode 100BASE-T1 USB Stick Raw enables connection to embedded hardware platforms used to generate and receive dedicated trigger events. The following are example applications:

- ▶ Synchronize external trigger input events (e.g. CAN message trigger) to 100BASE-T1 Ethernet traffic
- ▶ Generate trigger output event based on configurable EtherType
- ▶ Connect 100BASE-T1 device and GPIOs for realtime latency measurement
- ▶ Verify Precision Time Protocol (PTP) timestamping
- ▶ Use StreamTo application to record pcapng files for wirehark.

## Block Diagram



## Typical Application



## Technical Data

Dimensions:	53 x 41 x 15 mm
Power Supply:	Not required
Temperature range:	0°C to +85°C
Trigger Connector:	PTR screw terminals

## Ordering Information

Order Number:	FC900701
Product Name:	Trigger Extension
Deliverables:	Trigger Extension in green sub-shell incl. parallel cable for connection to FC611, FC612 and FC631 USB Stick Raw
Price (excl. tax & shipping cost):	Quantity: 1 .. 9 → 79,00 EUR per part Quantity: 10 .. 24 → 75,00 EUR per part Quantity: 25 .. 49 → 69,00 EUR per part Quantity: 50+ → Request a quote