

XMC4800 EtherCAT MAC2MAC connection



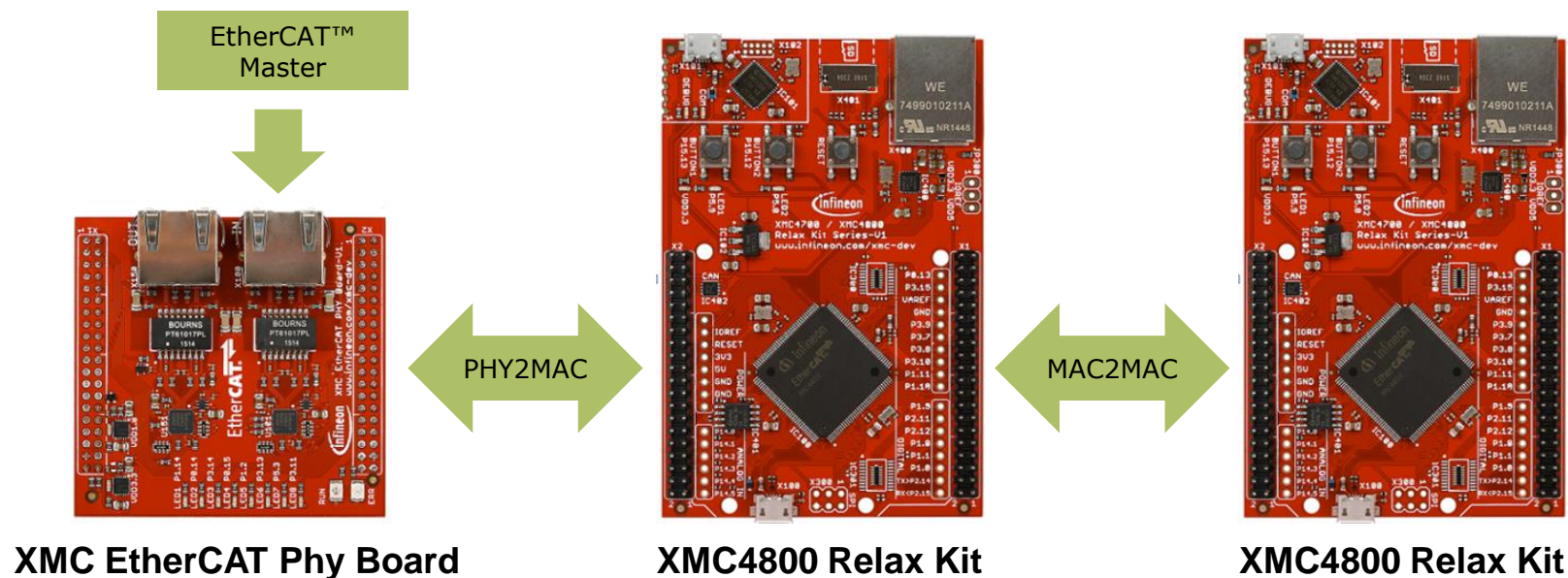
Overview

Inside the BECKHOFF documentation

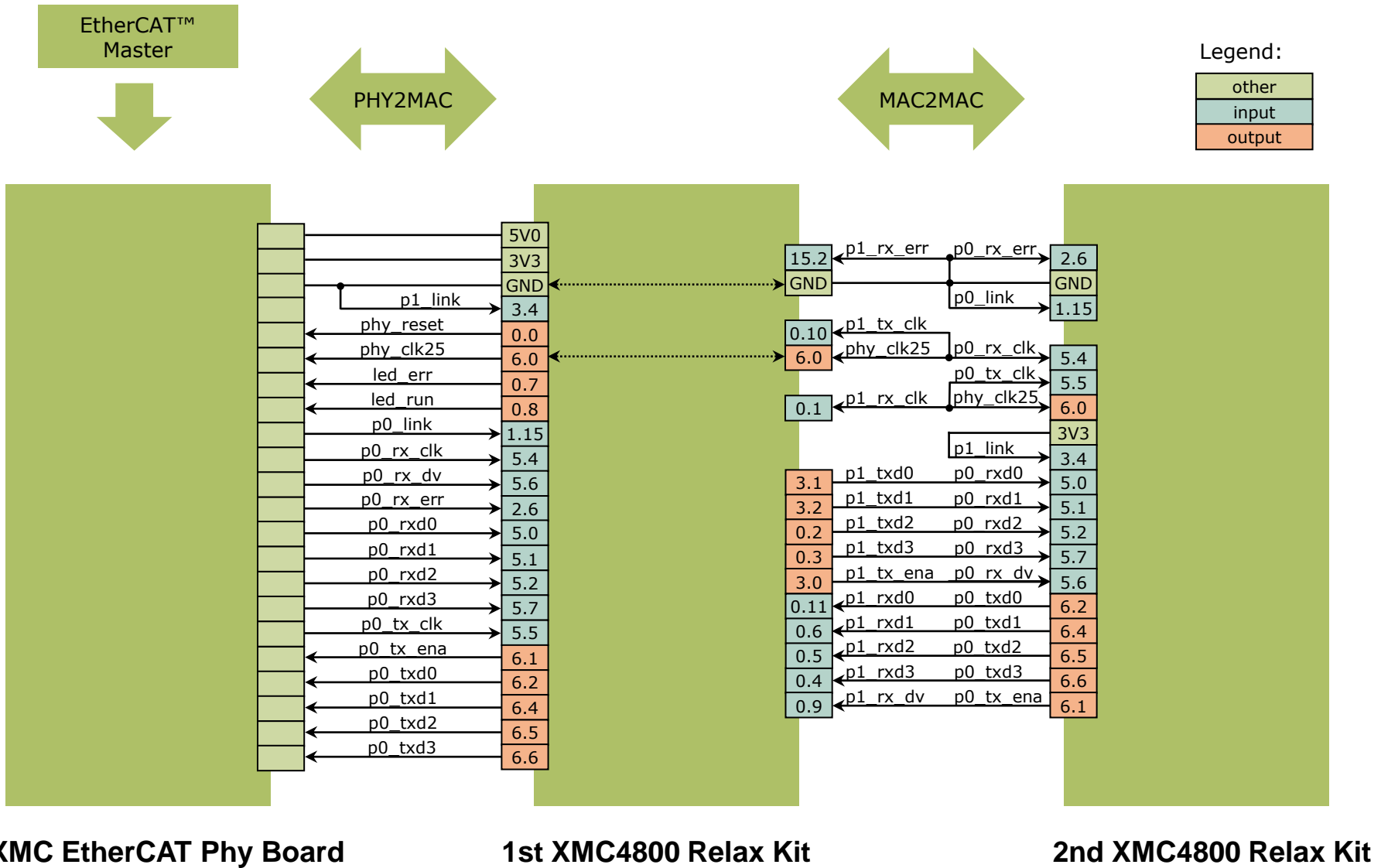
- › [Hardware Data Sheet Section I EtherCAT Slave Controller Version2.2 2014-07-07 Chapter 5.14 Back-to-Back MII Connection](#)

it is described how to interconnect two ET1100 MAC2MAC without overhead of PHY or magnetics: [Link](#)

As XMC4800 implements ET1100, MAC2MAC can be setup with two XMC4800 Relax Kits as well in the same way. Inside this documentation it is described, how to interconnect two XMC4800 Relax Kits kits for testing MAC2MAC connection by using the pin configuration of Infineons basic „ETHCAT_SSC_XMC48“ example.



MAC2MAC test setup using XMC4800 Relax Kits



MAC2MAC test setup using XMC4800 Relax Kits



- › The chain can be extended further in the same way.
- › The last node inside the chain, must have p1_link connected to 3.3V for closing port1
all other nodes, must have p1_link connected to GND for keeping port1 open.



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