XMC4800 EtherCAT

MAC2MAC connection

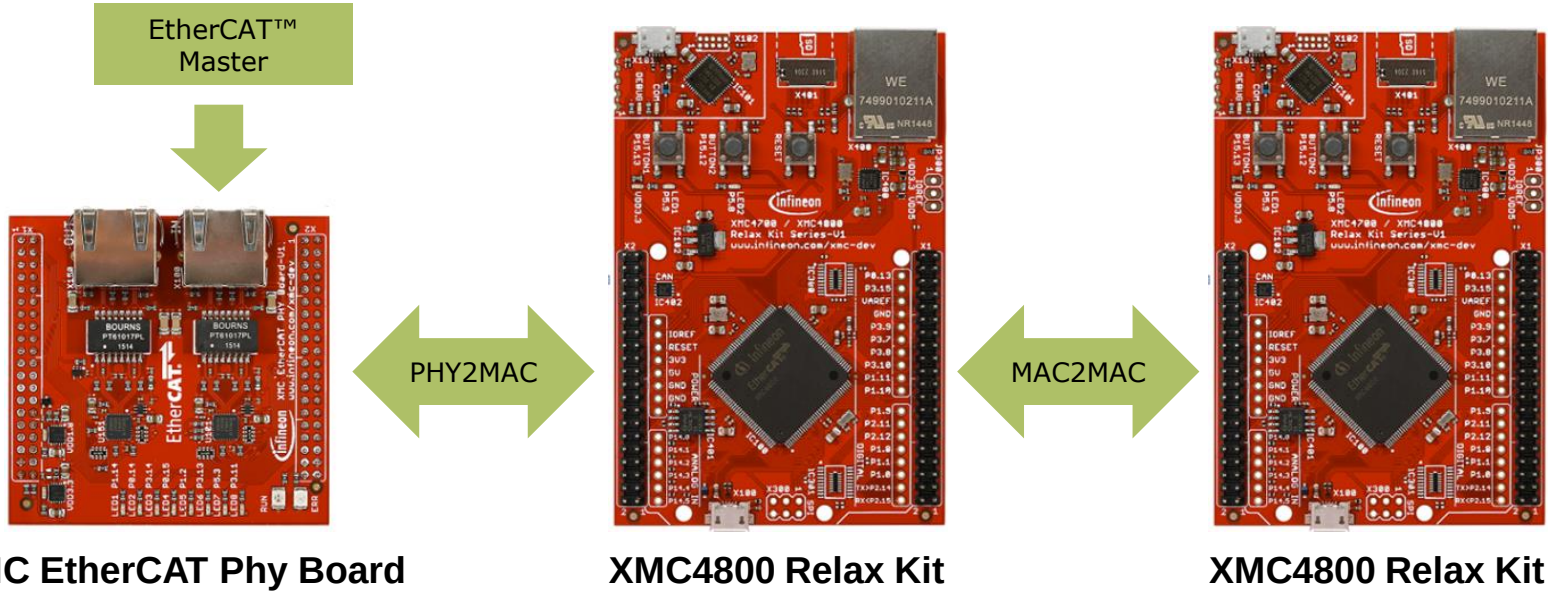
Overview

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.



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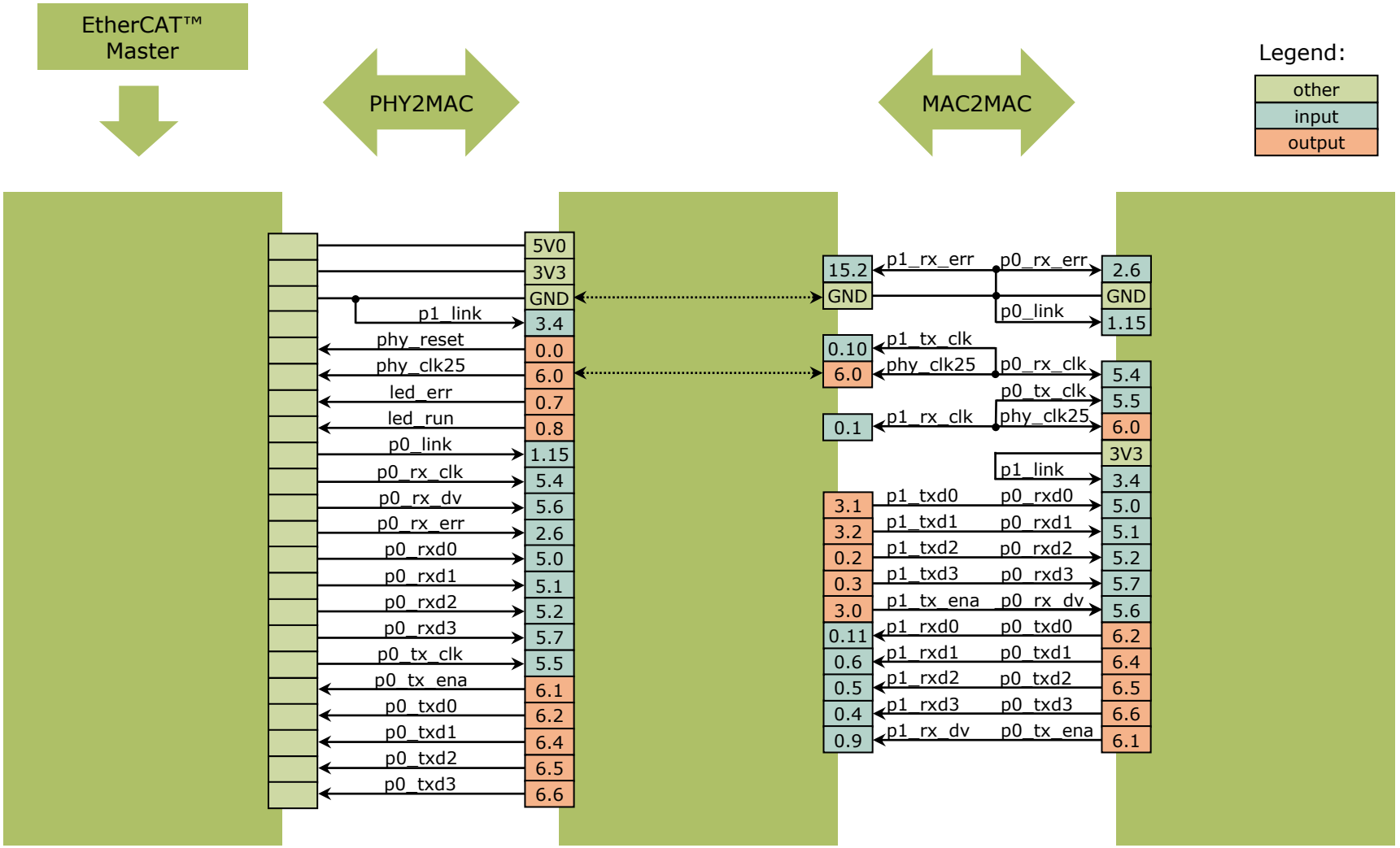
MAC2MAC test setup using XMC4800 Relax Kits



XMC EtherCAT Phy Board **1st XMC4800 Relax Kit** **2nd XMC4800 Relax Kit**

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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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