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## PRESS RELEASE

### Protocol library PROFINET RT1-CCB und EtherNet/IP as one Package – including Design-Tool Support

Port combines the so far separately offered protocol libraries for PROFINET and EtherNet/IP under GOAL into one package. Both protocols run on top of the middleware GOAL, jointly enabling port.de customers for standard compliant PROFINET and EtherNet/IP communication. Everything is available out-of-the-box and compliant to the latest Conformance Test Software by ODVA and PNO (Profibus.com). Accordingly, the customer's application can support PROFINET or EtherNet/IP out of one project.

The including Design-Tools support the customer setting-up the objects in the libraries and in creating the corresponding EDS Files (EDS and GSDML).

The middleware GOAL is the corresponding connector resp. anchor to the specific hardware and provides the real-world hooks to the hardware and to the environment while the protocol libraries implement the communication protocol itself and take comfort in the services, provided by GOAL.

While GOAL seems to be rather a complication – in the real world (and mean world) GOAL is the enabler to address and survive reality.

GOAL with PROFINET, EtherNet/IP supports the following targets:

**Linux:** using the eth0 (or any other ethx) and done.

**RZ Family by Renesas:** RN/N-1D, RZ/N-1S RZ/N-1L und RZ/T1

- RZ/N-1D: Dual Core A7 MCU + M3 Subsystem – GOAL runs in the M3 Sub system and the API is being mapped to the Linux Kernel.
- RZ/N-1S: Single Core A7 MCU + M3 Subsystem – GOAL runs in the M3 Sub system the Stack API are being mapped into the A7 Core – running **ThreadX**

- RZ/N-1L: M3 MCU – GOAL runs in the M3 Sub system
- RZ/T1: R4(F) MCU + M3 Sub system – GOAL runs in the M3 Sub system

**RENESAS:** RIN32M3 EC

**STMicroelectronics:** STM32F4x Series

**Texas Instruments:** Tiva TM4C

More about GOAL: <https://www.port.de/en/products/goal-middleware.html>

More about Design Tool: <https://www.port.de/en/products/profinet/tools/profinet-design-tool.html>

### **about port GmbH**

port is a leading supplier of industrial communication technologies such as CAN/CANopen and Industrial Ethernet including the PROFINET, EtherNet/IP, EtherCAT and POWERLINK protocols. port GmbH has been located in Halle/Saale since 1990. For more than five years port has successfully provided Industrial Ethernet Technology such as PROFINET, EtherCAT, POWERLINK and EtherNet/IP. port offers stacks, tools, workshops and integration support as well as custom hardware and software development, including manufacturing of electronic devices and systems.