EUROPROT +

Technical notes on EOB interoperability

PROTECTA
HUNGARY

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Contents

1   Description

We experienced some interoperability issues regarding front panel communication with EP+ devices. The link establishment procedure of the ethernet communication become unstable with certain type of NICs (Network Interface Card) of network devices. Network devices with 10/100Base-T speed support has no limitation but devices with 1000Base-T (called gigabit) may cause this link establishement failure. In this case the operating system periodically signals that interface is connected, then disconnected, then connected etc.

2 EOB Troubleshooting

- force NIC speed and mode to 10Base-T Full-duplex (setting method may depend on Your PC hardware configuration) on Your PC. Local Area Network settings can be found at:
    - WindowsXP: Control Panel/Network Connections/Local Area Connection
    - Windows 7: Control Panel\All Control Panel Items\Network and Sharing Center
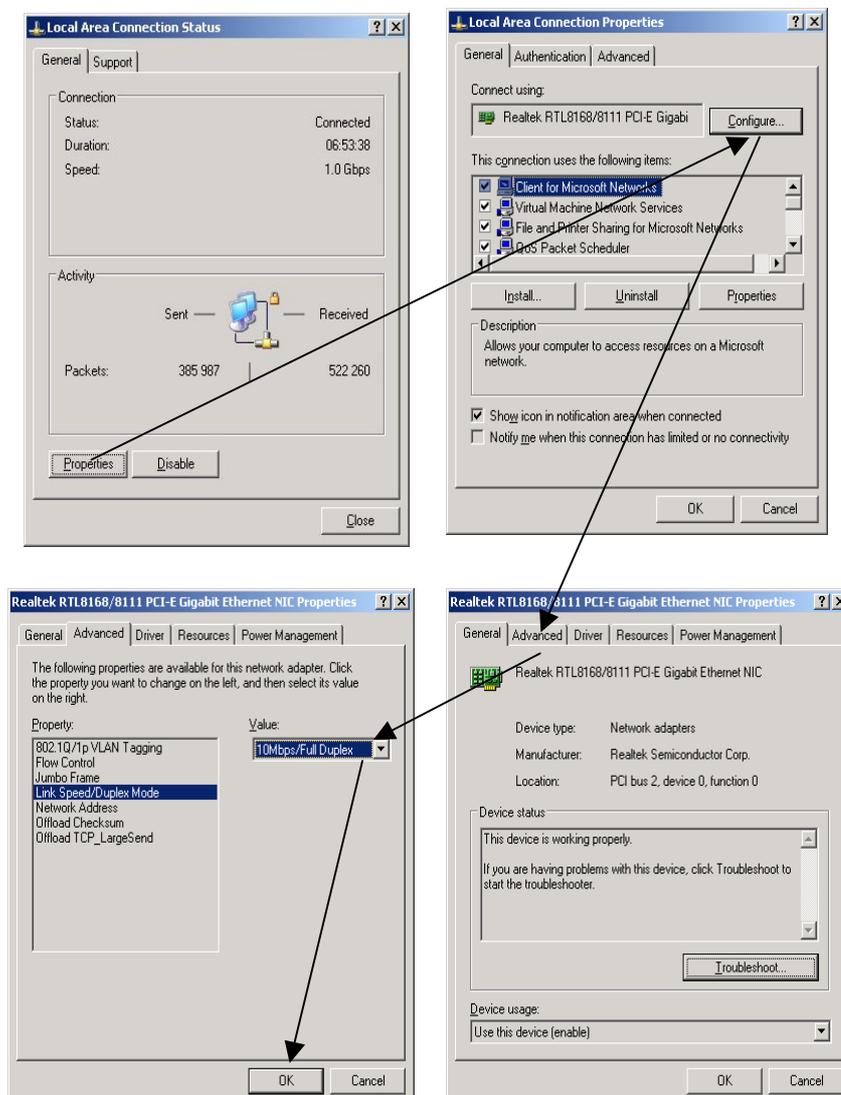
3 Workaround

1. using station bus interface connector at the front panel of the CPU card

    - if the device equipped with 100Base-Fx station bus interface then You can connect Your computer via a third-party media converter unit

    - if the device equipped with 10/100Base-Tx station bus interface (RJ45) then connect Your computer directly to the EP+ via a crossed CATx cable

Service computer

10/100Base-T
Cat-x cross UTP/STP cable
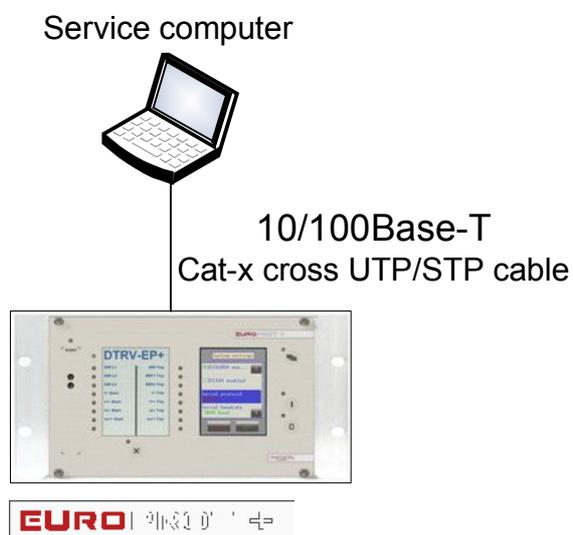
2. using EOB at the HMI:

    - in case of unstable link with Your PC apply a third-party external 10/100Base-T switch with one port connected via EOB to the EP+ and other port connected to Your PC via a CATx cable.

10Base-T
Cat-x cross UTP/STP cable
With RJ45 plug

Service computer
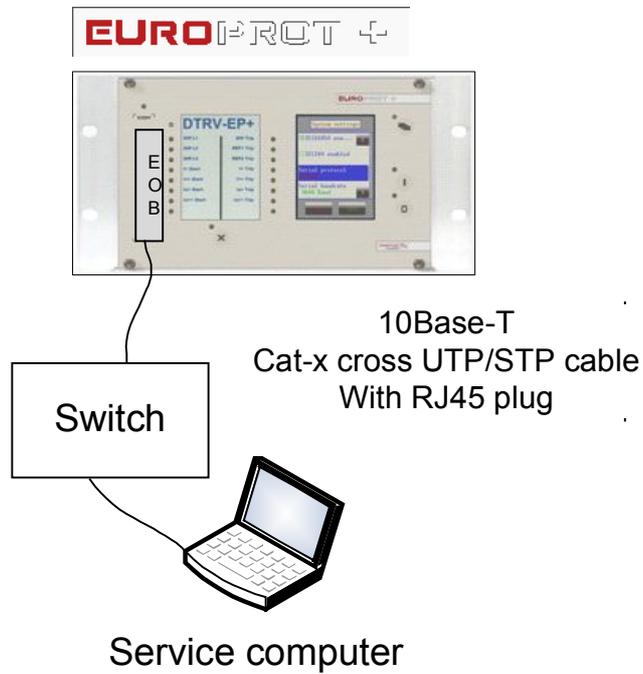
4 Further details

For getting started guide and IP configuration download: http://www.protecta.hu/epp-prelim/QuickStart/Quick_Start_Guide_V1.0.pdf