ETHERNET PHY

Manual

All Mikroelektronika's development systems feature a large number of peripheral modules expanding microcontroller's range of application and making the process of program testing easier. In addition to these modules, it is also possible to use numerous additional modules linked to the development system through the I/O port connectors. Some of these additional modules can operate as stand-alone devices without being connected to the microcontroller.

Additional Board

ETHERNET PHY additional board

The ETHERNET PHY additional board is used to connect the microcontroller installed in some device to the Ethernet network via serial communication.

Key features:

- Single-Chip Ethernet Physical Layer Transceiver(PHY)
- Comprehensive flexPWR® Technology
- Flexible Power Management Architecture
- LVCMOS Variable I/O voltage range: +1.6V to +3.6V
- Integrated 1.2V regulator with disable feature
- 3.3V power supply voltage; etc.

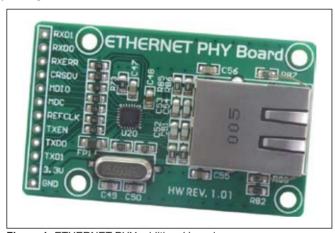


Figure 1: ETHERNET PHY additional board

How to connect the board?

The ETHERNET PHY additional board is connected to the microcontroller in some device via pads CN1. Connection with the Ethernet network is established via the RJ45 connector. A 1x12 connector, used to enable connection between the additional board and proto board, may be soldered on the pads.



Figure 2: Back side of the additional board



Figure 3: 1x12 connector

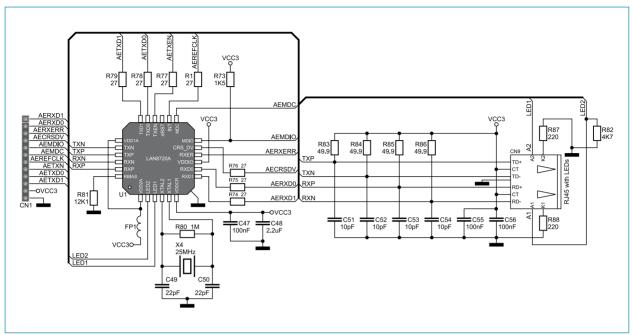


Figure 4: ETHERNET PHY additional board connection schematic

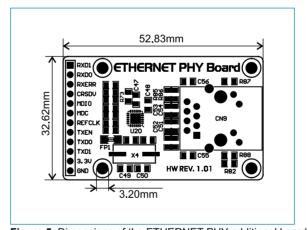


Figure 5: Dimensions of the ETHERNET PHY additional board

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If you have any questions, comments or business proposals, do not hesitate to contact us at office@mikroe.com