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Main Specifications of the µPD60610 and µPD60611 PHY Devices

Ethernet Interface

- Fully-compliant with IEEE 802.3/802.3u for 100BASE-TX, 100BASE-FX and 10BASE-T
- IEEE 802.3u auto-negotiation and parallel detection
- Full and half duplex operation
- Support automatic polarity detection and correction
- Support automatic MDI/MDI-X crossover

MAC Interface

- MAC interface: MII and RMII
- Serial management port (MDC/MDIO)

Power Management:

• Software power-up/down and automatic power-up/down by energy detection

Special Features

- Low latency and low jitter for industrial networking
- Fast link-down detection
- Permanent cable quality tracking
- Fast link-up option
- Industrial networking special auto-negotiation function
- Fast error detection
- Enhanced system testability (such as bypass, loopback and cable length measurement by TDR)
- Cable monitoring and error detection

Power Supply:

• Single 3.3 V power supply

Operating Temperature:

• Tambient = -40 to $+85^{\circ}$ C (Tjunction from -40 to $+125^{\circ}$ C)

Package

• 48-pin 0.5 mm pitch 7 × 7 mm, LQFP (low-profile quad flat package)