

DP83848 PHYTER® 10/100 Single Port Physical Layer Products

For Commercial, Industrial and Extreme Applications

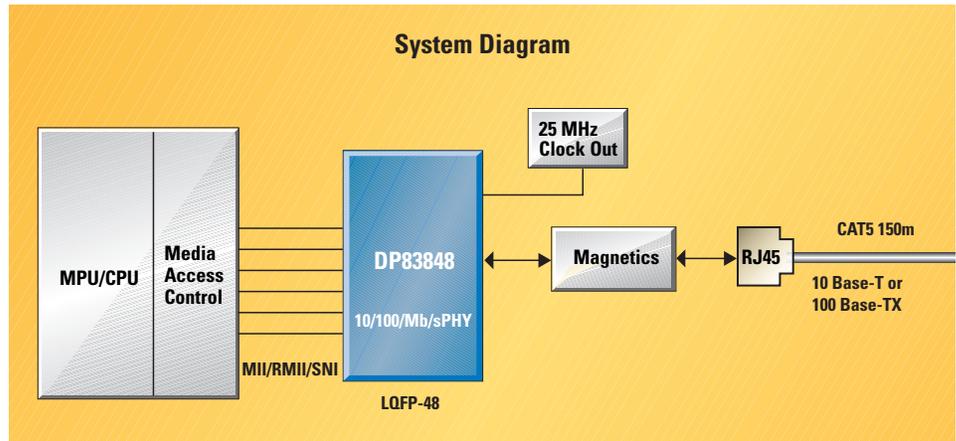
As 10/100 Ethernet becomes ubiquitous for connectivity in the 21st century, these three single-port 10/100 physical layer Ethernet transceivers address the unique needs of emerging applications. This 6th generation family of PHYTER® devices builds on National's leadership position as a long term supplier of Ethernet products. These devices are specifically designed for a broad range of embedded, industrial and high-end peripheral applications. The DP83848 PHYTER® family of Ethernet transceivers is available in commercial, industrial and extended temperature range.

Target Applications

- Industrial controls
- Factory automation
- High-end peripherals
- Building automation
- Basestations

Tools

- Datasheet, product brief
- Integrity utility (see back for details)
- Ibis model
- Schematic review
- Evaluation boards, samples
- Ethernet made easy (web based design tool)
- Application notes
- Reference design with schematics with popular micro controllers



Family Features	Benefits
Auto-MDIX	Automatically detects and corrects for straight or cross-over cables
Low Power <270 mW	Saves on battery life and system longevity
Error free operation up to 150m	Dependable network performance over long distance
25 MHz Clock output	Reduces external oscillator and cost
Selectable MII/RMII	Reduces pin count in RMII mode reducing overall system cost
Low latency	Deterministic Ethernet
48 pin LQFP	Saves real estate for designs requiring a small form factor
Superior 4.0 kV ESD protection (HBM)	Robust operation in harsh environment

Unique Specifications

Product ID	Grade	Temp. Range (°C)	Cable Reach (m)	JTAG
DP83848C	Commercial	0 to 70	137	—
DP83848I	Industrial	-40 to 85	150	1149.1
DP83848YB	Extreme	-40 to 125	150	1149.1

Visit ethernet.national.com

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