MegaChips

2-Port 100Base-TX PHY

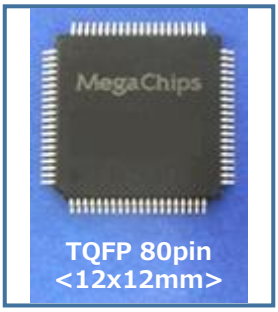
【MA00000287M】 2-channel Ethernet PHY fully compliant with 100BASE-TX standards.
Designed for industrial use (FA, etc.), it offers high noise immunity and robust ESD protection.
Perfect for systems requiring dual-channel 100Base-TX for industrial fieldbuses.

■ Key Features

1. 2-Port 100BASE-TX Standard Ethernet PHY
Dual-port MDI interface
optimized for **industrial fieldbuses (FA, etc.)**
Reduces **PCB footprint** and **BOM cost**
compared to using two single-channel chips.

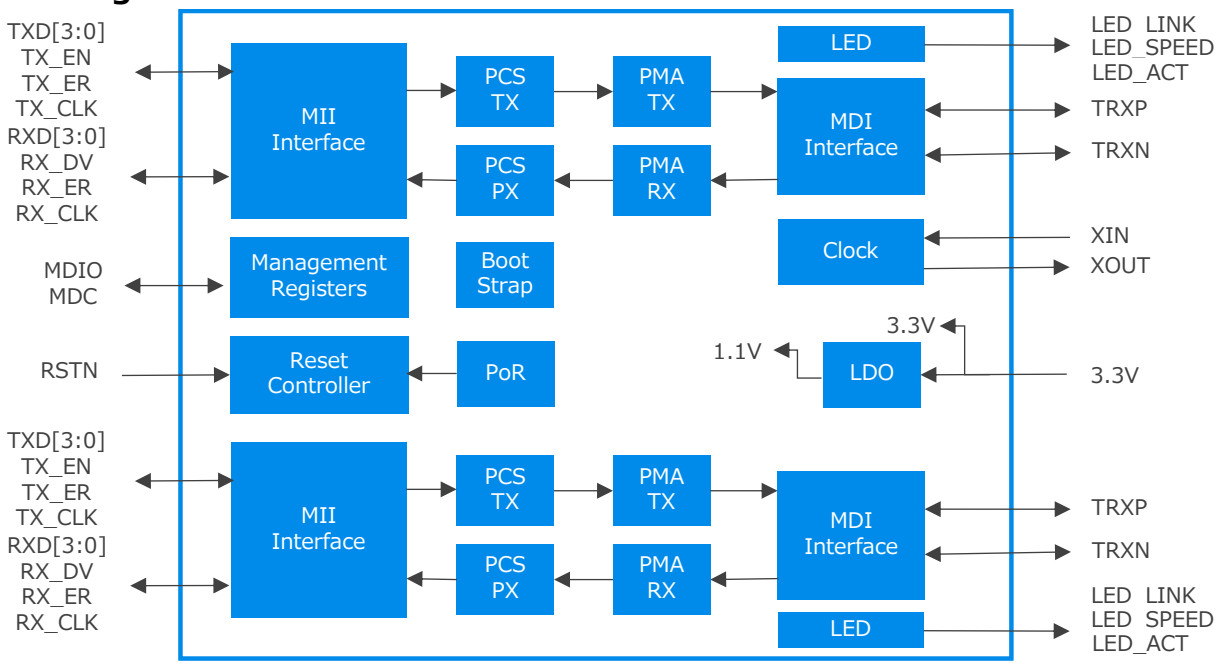
2. Single Power Supply Operation
Integrated LDO allows operation
with a single **3.3V power supply.**

3. Wide Operating Temperature Range
Supports ambient temperatures from **-40℃ ~ +85℃.**



<Package Outline>

■ Block Diagram



■ Main Specifications

Standard	100BASE-TX (IEEE 802.3u)	Power Supply	3.3V Single (Internal 1.1V via integrated LDO)
Package	TQFP 80pin(0.5mm)	Power Saving	Sleep Mode supported
Temp(Ta)	-40℃ ~ +85℃	ESD	HBM: ±2KV CDM: ±500V
Channels	2-Port	Features	Auto-Negotiation Auto-MDIX
Data Rate	100Mbps	External Clock	25MHz (Crystal / Oscillator supported)
MAC I/F	MII		

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