Ethernet Media Conversion Platform for Industry 4.0
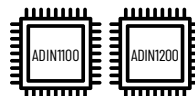
10BASE-T to 10BASE-T1L

Accelerate Development of 10BASE-T1L Solutions.

The 10BASE-T1L-MC media converter is a plug and play solution which enables seamlessly interfacing from single twisted pair (SPE) long reach Industrial Ethernet ("10BASET1L") to standard Ethernet ("10BASE-T").

The Device is built using the industry leading PHY technology from Analog Devices ADI Chronous Family, namely the ADIN1100,10BASE-T1L PHY and the ADIN1200,10BASE-T PHY. This device is pre-programmed to configure both the PHY ICs in 10Mbps full-duplex auto-negotiation mode.

Figure 1 10BASE-T1L-Media Converter
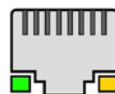
Enabled with ADIN1100 and ADIN1200 PHYs. Both the PHYs are configured at 10 Mbps speed, full-duplex and auto-negotiation mode.

Operates on +5V ±10%, 500mA USB supply over Type-C Connector

For SPE (10BASE-T1L) connection with Harting IEC63171-6 connector or terminal block connector.

For Standard Ethernet (10BASE-T) Connection Shielded RJ45 connector with LED indication for Link/ Activity Status.

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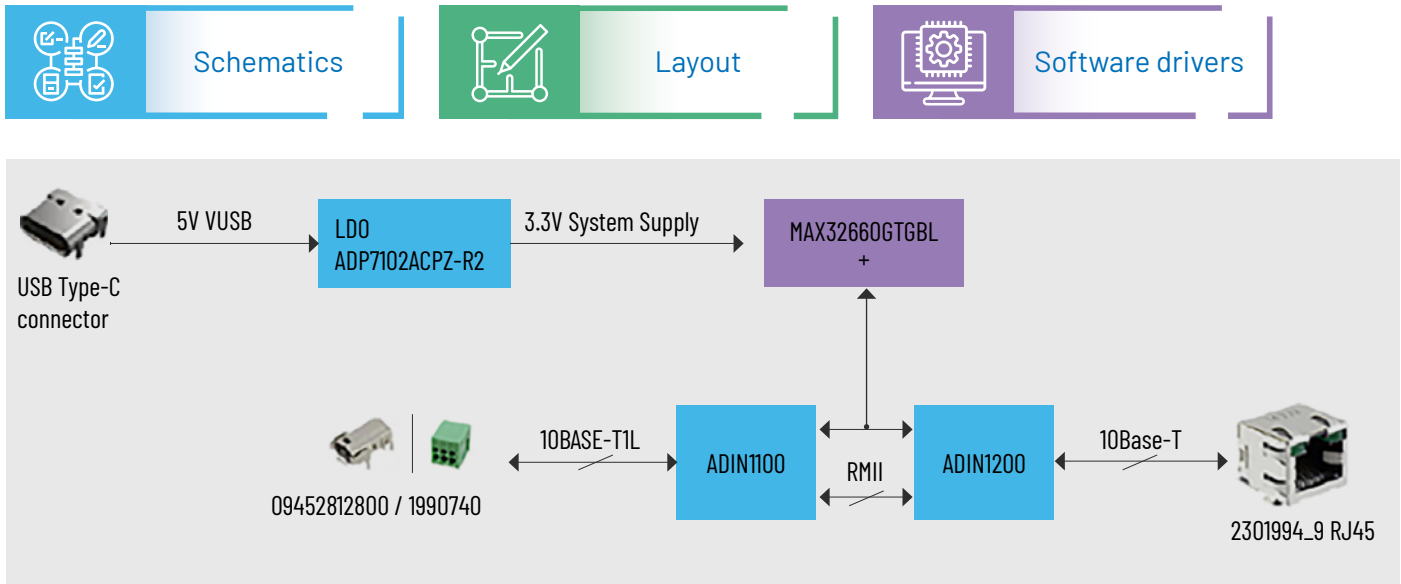
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Application Use Cases:

10BASE-T1L Media Converter is a compact solution ideally suited to accelerating the deployment of the new 10BASE-T1L Physical Layer, by providing a bridge between 10BASE-Tx / RJ45 and single pair ethernet (SPE).

- Evaluate the new 10BASE-T1L Physical Layer with the existing Ethernet Test Equipment.
- Dongle to connect standard Ethernet Switch's to new 10BASE-T1L Devices
- Connection to standard PC or Laptops for firmware development of prototypes

Build Your Own Solution

Take this proven hardware and software design and easily replicate to accelerate the development of custom 10BASE-T1L devices.

Schematics	Layout	Software drivers

Featured Products:

Product Name	Description
ADIN1100	Robust, Low Power 10BASE-T1L PHY
ADIN1200	Robust, Industrial, Low Power, 10/100 Mbps Ethernet PHY
MAX32660	Tiny, Ultra-Low-Power Arm Cortex-M4 Processor with FPU-Based Microcontroller (MCU) with 256KB Flash and 96KB SRAM
ADP7102	20 V, 300 mA, Low Noise, CMOS LDO

Ordering Information

10BASE-T1L-Media Converter To order, contact your local Arrow Account Manager, visit arrow.com, Order Code: 10BASE-T1L-MC

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