

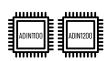
Accelerating Development of 10BASE-T1L Solutions

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 converter 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.



10BASE-T1L-MC 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 $+5V \pm 10\%$, 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.







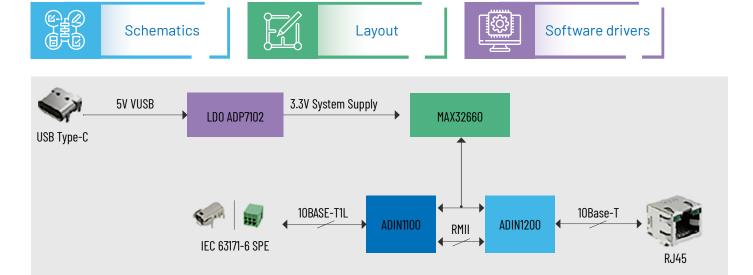
Application Use Cases:

- Easy evaluation of the new 10BASE-T1L Ethernet physical layer standard (IEEE 802.3cq-2019)
- Bridging standard 10BASE-T / RJ45 and 10BASE-T1L single pair ethernet (SPE)
- Edge-to-cloud connectivity in process automation

- Long-reach, robust, 10BASE-T1L Ethernet connectivity to brownfield installations in process and building automation
- Convertion of existing 4 mA to 20 mA equipment with HART or other field bus communications to 10BASE-T1L and bridging to standard 10BASE-T Ethernet

Build Your Own Solution

Take this proven hardware and software design and easily replicate to accelerate the development of custom 10BASE-T1L devices. Design, documentation and evaluation tools are available for free.



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 <u>arrow.com</u>, Order Code: 10BASE-T1L-MC





For regional headquarters, sales, and distributors or to contact customer service and technical support, visit analog.com/contact.

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