

T1L MEDIA ADAPTER

The Honeywell 10BASE-T1L media adapter is a converter that allows migrating a 10BASE-T network to 10BASE-T1L. This enables the easy deployment of devices with an Ethernet network using a single twisted pair connection.

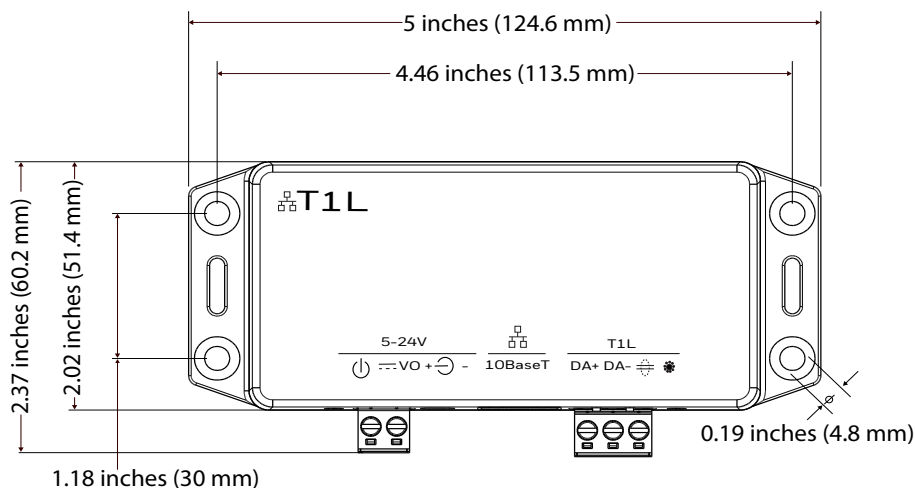
The 10BASE-T1L protocol allows devices to communicate on low-cost single twisted pair cable within an IP network. Using existing or new 2-wire cables saves installation costs. Through the Honeywell T1L media adapter, T1L networks can be connected to site Ethernet IP or LAN by converting one media type to another. An RJ45 connector connects the 10BASE-T network cable to an Ethernet, and a three-way screw terminal connects the downstream T1L devices with the twisted pair cable. The two ports exchange data packets in both directions. The adapter does not require an IP or MAC address and works out of the box with no configuration.



FEATURES AND HIGHLIGHTS

- Plug and play with zero setup.
 - Two models available:
 - One with power supply (110-230 VAC) and another without power supply.
 - Can operate from a separate power supply ranging from 5 to 24 VDC.
 - Operates at 10 Mbps.
 - Wall mount, enclosure, or panel mount or DIN rail mount*.
- Note:** *Requires a 1427DINCLIP or similar. Must be purchased to a third-party vendor.

DIMENSIONS AND WEIGHTS



All the dimensions are in inches (mm).

WEIGHT AND DIMENSIONS

WEIGHT AND DIMENSIONS	
PARAMETER	SPECIFICATION
Dimensions (L x W x D)	Media Adapter : 5 x 2.02 x 2.37 inches (124.6 x 51.4 x 60.2 mm)
Weight	Media Adapter : 0.158 lbs. (72 g) Power Supply : 0.147 to 0.180 lbs. (67 to 82 g), depending on connector choice.

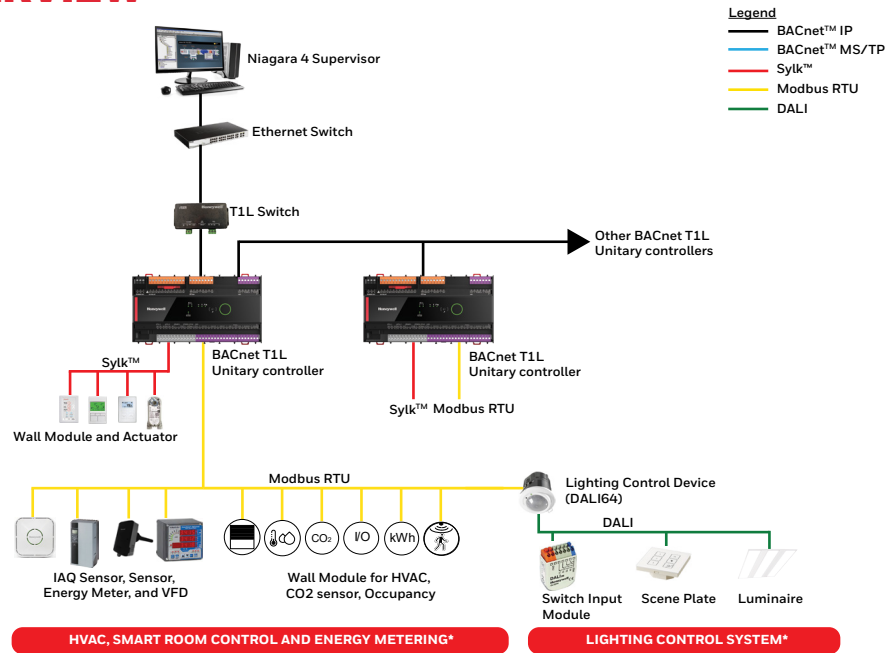
PART NUMBERS

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PARAMETER	SPECIFICATION
10BASE-T1L-ADAPT	With power supply 110 to 230 VAC
10BASE-T1L-ADAPT-O	Without power supply

OTHER SPECIFICATIONS

OTHER SPECIFICATIONS	
PARAMETER	SPECIFICATION
Terminal Connections	Rising Clamp, Screw Terminal
Case Material	Flame retardant polycarbonate (PC)

SYSTEM OVERVIEW



* Devices subject to local availability. Contact your local sales representative for information on available devices in your region.

PRODUCT SPECIFICATION

ELECTRICAL

MEDIA ADAPTER	
PARAMETER	SPECIFICATION
Power Supply	5 to 24 VDC
Power Consumption	5 VDC : 0.35 W, 24 VDC : 0.48 W
Terminal Size	Up to 14 AWG (2.5 mm ²)

EXTERNAL POWER SUPPLY (OPTIONAL)	
PARAMETER	SPECIFICATION
Power Supply	110 to 230 VAC
Power Consumption	110 VAC : 0.6 W, 230 VAC : 0.6 W
Output Voltage	5 VDC
Connector	Type M Barrel Plug (5.5 mm OD, 2.1 mm ID)

OPERATING ENVIRONMENT

MEDIA ADAPTER	
PARAMETER	SPECIFICATION
Ambient Operating Temperature	-40 °F to 140 °F (-40 °C to 66 °C)
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	-40 to 185 °F (-40 to 85 °C)

POWER SUPPLY	
PARAMETER	SPECIFICATION
Ambient Operating Temperature	32 to 140 °F (0 to 60 °C)
Ambient Operating Humidity	5 to 95 % RH (Non-condensing)
Storage Temperature	-40 to 185 °F (-40 to 85 °C)

COMMUNICATION

10BASE-T	
PARAMETER	SPECIFICATION
Standard	802.3i-1990 (CL14)
Connection	RJ45, auto MDI-X
Cable Type	CAT5e, UTP (unshielded twisted pair)
Distance	328 feet (100 meters) maximum
Transmission Rate	10 Mbps

10BASE-T1L	
PARAMETER	SPECIFICATION
Standard	802.3cg-2019
Connection	Screw terminal, auto MDI-X
Cable Type	Shielded or unshielded single twisted pair, 22 AWG to 18 AWG
Distance	984 feet (300 meters) maximum to Honeywell controller with failure-tolerant daisy-chain. 3280 feet (1000 meters) maximum to any other T1L device without daisy-chain
Transmission Rate	10 Mbps

CERTIFICATIONS

OTHER CERTIFICATIONS	
PARAMETER	SPECIFICATION
IP Rating	Media Adapter : IP40 Power supply : IP20
Standards and Approvals	Media Adapter : UL/cUL listed, CE Marked + RoHS, UKCA Marked

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Honeywell | Building Automation

715 Peachtree St NE
Atlanta, Georgia 30308, USA

Honeywell GmbH

EU: Honeywell Products and Solutions Sàrl
Add: Z.A. La Piece 16 Rolle,
1180, Switzerland

Honeywell | Building Automation

Building 5 Carlton Park, King Edward
Avenue, Narborough, Leicester
LE19 0LF, United Kingdom

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