

Pro'sKit®

MT-7063/MT-7064

PoE & Lan Cable Tester



MT-7063



MT-7064

User's Manual

2nd Edition' 2020

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Thank you very much for purchasing Pro'sKit MT-7063/MT-7064 PoE & Lan cable tester. This product is ideal for testing live Ethernet cables and determining continuity of network and telephone cables.

Features :

PoE Tester

- Easily tests Ethernet network for Power over Ethernet existence
- Quickly identifies the type of Power Sourcing Equipment (either End-span or Mid-span)
- **MT-7063** is an economical type only for detecting Mid-span/End-span.
- **MT-7064** is an advanced type that can easily identify IEEE 802.3 af/at PoE standard and Mid-span/End-span

Cable Tester

- Checks RJ11/RJ12/RJ45 pin to pin cable maps
- Automatically runs all tests and checks for continuity, opens, shorts and crossover wire pairs
- Cable mapping up to 300M

Product Description

- 1.RJ45 connector
- 2.RJ11 connector
- 3.Power switch
- 4.PoE test connector
- 5.Remote unit



SPECIFICATION :

Model number	MT-7063		MT-7064	
Max. distance of cable map	300m			
Compatible connectors	RJ45(8 pin) & RJ11(6P/6C/4C/2C) & RJ12 & POE			
Cable types tested	RJ45 Lan cable Cat 5、5e、6、7(UTP/STP) ,RJ11/12 Telephone cable Cat 3 (6P/2C/4C/6C)			
Cable map indication	8 LED, Fast/Slow dual speed			
Shielded indication	LED(S)			
PoE indication (Master:)	Power supply mode (2LED)		PoE standard(4LED)	
	Mid-span	End-span	Mid-span 802.3af/at	End-span 802.3 af/at
Dimension (L×W×D)	123x66x35mm (Master:94x66x35mm; Remote:32x64x34mm)			
Battery type	DC 9.0V (not included)			
Weight	125g (Not included battery)			

Safety Instructions

 Please read and learn the safety instructions before using or maintaining the equipment

- This cable tester can't test any electrified product.
- Please change the batteries if and weak lights appears.
- Please verify the RJ45 connector and cable is good and properly inserted into jack. If not properly install LED, the tester may not work.
- Please use quality tools to crimp the cables.
- Take out the battery if the tester will not be used for a long time.

PoE Tester

The PoE Tester, Connected to the PoE connector on the left side of the instrument, allows one to test live Ethernet cables and determine if power and data are present. And also identifies the type of Power Sourcing Equipment (either End-span or Mid-span) in your network. This unit is an easy-to-use in Power over Ethernet(PoE) adapters for professionals, businesses and home users to determine the existence of Power over Ethernet.

Operation (MT-7063)

1. Connect one end of cable into the PoE connector on the left side of the instrument.
- NOTE:** This instrument can be tested without turning on the Tester power switch.
2. When indicator light LED " End -span" light is on, it means power is provided by End -span (12/36)
 3. When indicator light LED " Mid -span " light is on, it means power is provided by Mid -span (45/78).
 4. When the both lights are on at the same time, it means power is provided by Mid-span & End-span (4 pair).

Mid-span	End-span	Result
V	X	Mid-span(45/78)
X	V	End-span(12/36)
V	V	4 pairs (1236& 4578)

Operation (MT-7064)

1. Connect one end of cable into the PoE connector on the left side of the instrument.

NOTE: This instrument can be tested without turning on the Tester power switch

Test result 1:

When LED "D1" light is on, it means power is provided by End-span (12/36), and it is 802.3af standard, the output power is 15.4W. (PD Max 12.95W)

Test result 2:

When LED "D1"and "D2" lights are on at the same time, it means power is provided by End-span (12/36), and it is 802.3at standard, the output power is

30W. (PD Max 25.5W)

Test result 3:

When LED "D3" light is on, it means power is provided by Mid-span(45/78), and it is 802.3af standard, the output power is 15.4W. (PD Max 12.95W)

Test result 4:

When LED "D3"and "D4" lights are on at the same time, it means power is provided by Mid-span (45/78), and it is 802.3at standard, the output power is 30W. (PD Max 25.5W)

Test result 5:

When the LED "D1"and "D3" lights are on at the same time, it means power provided by Mid-span & End-span (4 pairs), and it is 802.3af standard, the output power is 30W.

Test result 6:

When the 4 LEDs are on, it means power provided by Mid-span & End -span (4 pairs), and it is 802.3at standard, the output power is 60W.

D1	D2	D3	D4	Result
V	X	X	X	End-span(1236) 802.3af (over Data)
V	V	X	X	End-span(1236) 802.3at (over Data)
X	X	V	X	Mid-span(4578) 802.3af(over Spare)
X	X	V	V	Mid-span(4578) 802.3at(over Spare)
V	X	V	X	802.3af (4 pairs)
V	V	V	V	802.3at (4 pairs)

Cable Tester

Functions

1. It can test corresponding double-twisted cable 1,2,3,4,5,6,7,8 and S. Meanwhile, it can identify good connection, shorts, crossover or opens.
2. "OFF" means Power off, "ON" means normal scan, "SLOW" means slow scan.

Operation

Slide the power switch to "on" (Normal grade) position or "S" (Slow grade) position, and then connect the RJ45 /RJ11/RJ12 cable with Master Tester and Remote Tester. The cable mapping will be automatically processed by pin to pin scanning as below:

Pin 1-8 8P/8C	Pin 1-6 6P/6C
Pin 2-5 6P/4C	Pin 3-4 6P/2C

Abnormal Connections Instruction

OPENS

1. While performing the pin to pin scanning, if the pin 3 LED does not light up on both the master unit and remote unit, it means Pin 3 is open circuited.

2. If there are several pins that are not connected, there are several lights that will not turn on. If less than two pins are connected, none of the lights are on.

CROSSOVER

If pins are crossover, for example NO2 and NO4, the result is displayed as below:

Master Tester: 1-2-3-4-5-6-7-8-S

Remote Tester: 1-4-3-2-5-6-7-8-S

SHORT

If two or more pins are short circuited, the lights will not light up on the remote tester while master tester shows normal.

Testing patch cables or wall installed cables, two cables which can match each other (eg 110P4-RJ45) will be connected to the tester.

Test by RJ45 cable

Slide the power switch to "ON" or "SLOW", the power will turn on.

1. UTP cable test

Connect the cable, the tester will pin to pin scan sequentially from 1 to 8 circulate test.

2. STP cable test

Connect the cable, the tester will pin to pin scan sequentially from 1 to S circulate test.

If any cable is open, short or crossover, the result is as shown as above. When finish testing, turn off the tester. If finished for a long time, remove the battery for storage.

Test by RJ11/RJ12

Slide the power switch to "ON" or "SLOW", the power will turn on.

1. RJ11 cable test

Connect the cable, the tester will pin to pin scan sequentially from 2 to 5 circulate test.

2. RJ12 cable test

Connect the cable, the tester will pin to pin scan sequentially from 1 to 6 circulate test.

If any cable is open, short or crossover, the result is as shown as above. When finished test, turn off the tester. If finished for a long time, remove the battery for storage.