SYC SEMICONDUCTORES Y COMPONENTES

TESTER-RED-7064
PoE & Lan Cable Tester
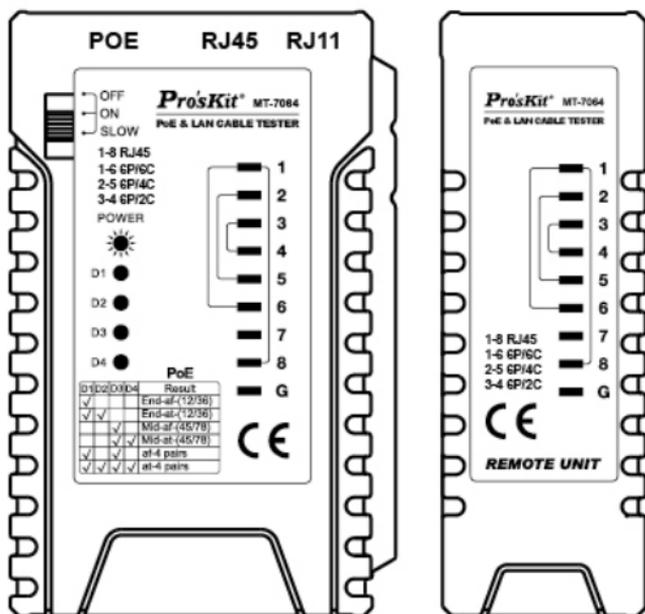
CE RoHS COMPLIANT

User's Manual
1st Edition, 2016
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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 Endspan or Midspan)
- MT-7063 is an economical type only for detecting Midspan/Endspan.
- MT-7064 is an advanced type that can easily identify IEEE 802.3 af/at PoE standard and Midspan/Endspan

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

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(UTP/STP) RJ11/12 Telephone Cable Cat 3 (6P/2C/4C/6C)	
Cable map indication	8 LED，Fast/Slow dual speed	
Shielded indication	YES	
PoE indication（Master： ）	Midspan/Endspan	802.3 af/at PoE standard and Midspan/Endspan
Live telecommunication equipment test and router test	Yes	
Dimension (L×W×D)	Master:103×66×27 mm Remote:103×35×27 mm	
Battery type	DC 9.0V (not included)	
Weight	130g（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 instalLED, 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 802.3af/802.3at PoE Tester, connected to an RJ45 outlet, 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 Endspan or Midspan) 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 RJ45 Port of PoE equipment, and the other end plug into the PoE jack of MT-7063.
2. Turn on the power of PoE equipment, and then switch on the PoE tester.
3. When LED1 light turns orange as below, it means power is provided by Midspan (45/78)
4. When LED2 light turns green as below, it means power is provided by Endspan (12/36).
5. When LED1 light turns orange, and also LED2 light turns green as below, it means power is provided by Midspan & Endspan (4 pair).

Midspan (orange)	Endspan(green)	Result
V	X	Minspan(45/78)
X	V	Endspan(12/36)
V	V	4 pairs (1236& 4578)

Operation (MT-7064)

1. Connect one end of cable into RJ45 Port of PoE equipment, and the other end into the PoE port of MT-7064.
2. Power on the PoE equipment, and then switch on the MT-7064.

Test result 1:
When LED1 light turns green as below, it means power is provided by Endspan (12/36), and it is 802.3af standard, the output power is 15.4W. (PD Max 12.95W)

Test result 2:
When LED1 light turns green and LED2 light turns blue as below, it means power is provided by Endspan (12/36), and it is 802.3at standard, the output power is 30W. (PD Max 25.5W)

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Test result 3:
When LED3 light turns green as below, it means power is provided by Midspan(45/78), and it is 802.3af standard, the output power is 15.4W. (PD Max 12.95W)

Test result 4:
When LED3 light turns green and LED4 light turns blue as below, it means power is provided by Midspan (45/78), and it is 802.3at standard, the output power is 30W. (PD Max 25.5W)

Test result 5:
When the LED1 & LED3 both turn green, it means power provided by Midspan & Endspan (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 Midspan & Endspan (4 pairs), and it is 802.3at standard, the output power is 60W.

D1(green)	D2(blue)	D3(green)	D4(blue)	Result
V	X	X	X	Endspan(1236) 802.3af (over Data)
V	V	X	X	Endspan(1236) 802.3af (over Data)
X	X	V	X	Midspan(4578) 802.3af(over Spare)
X	X	V	V	Midspan(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 G. 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

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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-G

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

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 G circulate test.

If any cable is open, short or crossover, the result is as shown as above. When finished 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 2 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.