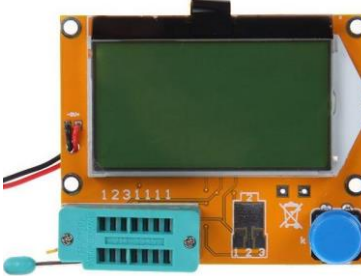

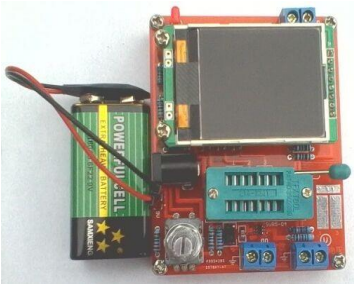








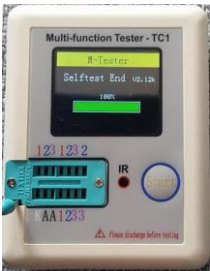





**Comparative table for clone ttester**

| Clone model  | CPU,<br>form factor,<br>clock | Display,<br>controller,<br>resolution      | 5V reg,<br>ref.2.5V,<br>supply<br>controller | Test option<br>(preinstalled firmware)   | Protection<br>will<br>measure<br>ports                               | Firmware,<br>opportunity<br>update  | Power<br>supply                    | Possible<br>price |
|--|-------------------------------|--|--|--|--|---|------------------------------------|-------------------|
| <b>LCR-T4</b><br>               | ATMega328,<br>TQFP,<br>8Mhz   | LCD<br>2.6" SPI,<br>ST7565,<br>128x64      | 78L05,<br>TL431                              | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors   | No   | Chinese<br>firmware<br>(2.07-2.68),<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m | +9V                                | ≥6-10\$           |
| <b>Fish-8840</b><br>            | ATMega328,<br>TQFP,<br>8Mhz   | LCD<br>2.6" SPI,<br>ST7565,<br>128x64      | 78L05,<br>No                                 | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors   | No   | Chinese<br>firmware 2.1,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m            | +9V                                | ≥15-20\$          |
| <b>M328Kit+TFT(AY-AT)</b><br> | ATMega328,<br>DIP,<br>8Mhz    | LCD TFT<br>1.8" SPI,<br>ST7735,<br>160x128 | 7550,<br>TL431                               | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors<br>voltmeter, frequency<br>generator, frequency<br>meter, encoder | Yes,<br>SRV05-4<br>diode<br>assembly,<br>suppressor<br>(TVS)<br>6V8A | Firmware<br>1.12k mod.*,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m            | +9V,<br>connector<br>ext.<br>9-12V | ≥10-15\$          |

|  |                                      |  |                        |  |   |   |  |                 |
|--|--------------------------------------|--|------------------------|--|---|---|--|-----------------|
| <p><b>GM328A</b></p>    | <p>ATMega328,<br/>DIP,<br/>8Mhz</p>  | <p>LCD TFT<br/>1.8" SPI,<br/>ST7735,<br/>160x128</p> | <p>7550,<br/>TL431</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;5V),<br/>resistors, capacitors,<br/>chokes, inductors<br/>voltmeter, frequency<br/>generator, frequency<br/>meter, encoder</p> | <p>Yes,<br/>SRV05-4<br/>diode<br/>assembly,<br/>suppressor<br/>(TVS)<br/>6V8A</p> | <p>Firmware<br/>1.12k mod.*,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p> | <p>+9V,<br/>connector<br/>ext.<br/>9-12V</p> | <p>≥10-15\$</p> |
| <p><b>M328Kit</b></p>   | <p>ATMega328,<br/>DIP,<br/>8Mhz</p>  | <p>LCD<br/>2.0" SPI,<br/>ST7565,<br/>128x64</p>      | <p>7550,<br/>TL431</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;5V),<br/>resistors, capacitors,<br/>chokes, inductors<br/>voltmeter, frequency<br/>generator, frequency<br/>meter, encoder</p> | <p>No</p>   | <p>Firmware<br/>1.12k mod.*,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p> | <p>+9V</p>                                   | <p>≥10-15\$</p> |
| <p><b>GM328A+</b></p>  | <p>ATMega328,<br/>DIP,<br/>8Mhz</p>  | <p>LCD<br/>2.6" SPI ,<br/>ST7565,<br/>128x64</p>     | <p>7550,<br/>TL431</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;5V),<br/>resistors, capacitors,<br/>chokes, inductors</p>  | <p>Yes,<br/>SRV05-4<br/>diode<br/>assembly,<br/>suppressor<br/>(TVS)<br/>6V8A</p> | <p>Firmware<br/>1.11k mod.*,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p> | <p>+9V</p>                                   | <p>≥10-15\$</p> |
| <p><b>MG328</b></p>   | <p>ATMega328,<br/>TQFP,<br/>8Mhz</p> | <p>LCD<br/>1.8" SPI,<br/>ST7565,<br/>128x64</p>      | <p>7150,<br/>TL431</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;5V),<br/>resistors, capacitors,<br/>chokes, inductors</p>  | <p>No</p>   | <p>Firmware<br/>1.11k mod. ,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p> | <p>+3.7V,<br/>+5V(USB)</p>                   | <p>≥10-15\$</p> |

|  |                             |   |                 |  |    |   |                                    |          |
|--|-----------------------------|---|-----------------|--|----|---|------------------------------------|----------|
| <b>WEI M8-1</b><br>               | ATMega328,<br>TQFP,<br>8Mhz | LCD<br>2.6" SPI,<br>ST7565,<br>128x64       | 7150,<br>TL431  | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors | No | Firmware<br>1.11k mod. ,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m      | +3.7V,<br>+5V(USB)                 | ≥10-15\$ |
| <b>BSIDE ESR02(DTU-1701B)</b><br> | ATMega328,<br>TQFP,<br>8Mhz | LCD<br>2.6" SPI ,<br>ST7565,<br>128x64      | 7150,<br>TL431  | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors | No | Firmware<br>1.11k mod. ,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m      | +9V,<br>connector<br>ext.<br>9-12V | ≥25-30\$ |
| <b>Fish-8840(BOX)</b><br>        | ATMega328,<br>TQFP,<br>8Mhz | LCD<br>2.2" SPI,<br>ST7565,<br>128x64       | 78L05,<br>No    | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors | No | Chinese<br>firmware 2.1,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m      | +9V                                | ≥10-15\$ |
| <b>Fish-8840TFT</b><br>         | ATMega328,<br>TQFP,<br>8Mhz | LCD TFT<br>1.8" SPI,<br>ST7735S,<br>160x128 | 78L05,<br>TL431 | Transistors, diodes,<br>diode assemblies, LEDs,<br>thyristors, triacs,<br>zener diodes (<5V),<br>resistors, capacitors,<br>chokes, inductors | No | Chinese<br>firmware<br>2.4* ,<br>possible<br>update to<br>firmware<br>1.13k or<br>1.39m | +9V                                | ≥15-20\$ |

|   |   |   |   |   |   |  |                                    |                 |
|---|---|---|---|---|---|--|------------------------------------|-----------------|
| <p><b>LCR-TC1</b></p>        | <p>ATMega324,<br/>TQFP,<br/>possible<br/>ATMega644,<br/>16Mhz</p>   | <p>LCD TFT<br/>1.8" SPI,<br/>ST7735S,<br/>160x128</p> | <p>78L05,<br/>TL431,<br/>STC15L104,<br/>possible<br/>STC15F104,<br/>STC15W104</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;35V),<br/>voltmeter, resistors,<br/>capacitors, chokes,<br/>inductors,<br/>IR receiver</p>  | <p>Yes,<br/>SRV05-4<br/>diode<br/>assembly,<br/>suppressor<br/>(TVS)<br/>6V8A</p> | <p>Chinese<br/>firmware<br/>2.12,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p>     | <p>+3.7V,<br/>USB<br/>charging</p> | <p>≥15-20\$</p> |
| <p><b>LCR-T7</b></p>         | <p>ATMega324,<br/>(TQFP),<br/>possible<br/>ATMega644,<br/>16Mhz</p> | <p>LCD TFT<br/>1.8" SPI,<br/>ST7735S,<br/>160x128</p> | <p>78L05,<br/>TL431,<br/>STC15L104,<br/>possible<br/>STC15F104,<br/>STC15W104</p> | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;35V),<br/>voltmeter, resistors,<br/>capacitors, chokes,<br/>inductors,<br/>IR receiver</p>  | <p>Yes,<br/>SRV05-4<br/>diode<br/>assembly,<br/>suppressor<br/>(TVS)<br/>6V8A</p> | <p>Chinese<br/>firmware<br/>2.12*,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m **</p> | <p>+3.7V,<br/>USB<br/>charging</p> | <p>≥15-20\$</p> |
| <p><b>MK-328</b></p>        | <p>ATMega328,<br/>TQFP,<br/>8Mhz</p>                                | <p>LCD<br/>2.6" SPI ,<br/>ST7565,<br/>128x64</p>      | <p>1117,<br/>TL431</p>  | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;5V),<br/>resistors, capacitors,<br/>chokes, inductors</p>   | <p>Yes,<br/>SRV05-4<br/>diode<br/>assembly,<br/>suppressor<br/>(TVS)<br/>6V8A</p> | <p>Firmware<br/>1.11k mod. ,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p>          | <p>+9V</p>                         | <p>≥18-25\$</p> |
| <p><b>Hiland M644</b></p>  | <p>ATMega644,<br/>TQFP,<br/>8Mhz</p>                                | <p>LCD<br/>2.0" SPI,<br/>ST7565,<br/>128x64</p>       | <p>1117,<br/>TL431</p>  | <p>Transistors, diodes,<br/>diode assemblies, LEDs,<br/>thyristors, triacs,<br/>zener diodes (&lt;35V),<br/>resistors, capacitors,<br/>chokes, inductors,<br/>frequency generator,<br/>frequency meter, quartz<br/>and ceramik resonators,<br/>voltmeter, encoder</p> | <p>No</p>   | <p>Firmware<br/>1.12k mod.* ,<br/>possible<br/>update to<br/>firmware<br/>1.13k or<br/>1.39m</p>         | <p>+9V</p>                         | <p>≥18-25\$</p> |

\* Note: the Chinese version is locked to read!

\*\* Note: for a clone with a display connected to a 6-pin J3 connector.