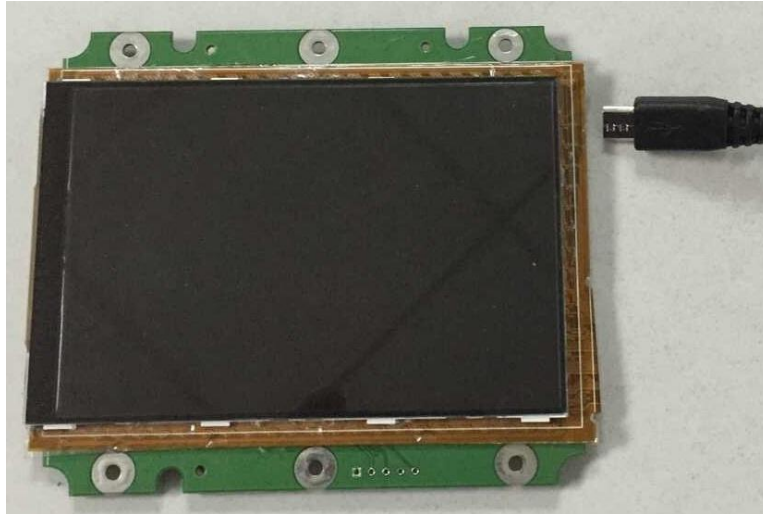


## Sign Module ESP400M Specification



### Introduction of Components

Hanvon ESP400M, integrated with a LCD and an electromagnetic resonance (EMR) digitizer, is designed for purpose of input signature with handwriting. The EMR digitizer comes with a cordless and battery-free stylus.

### Features and Functions

- Specially designed for embed in machines
- 480(RGB)× 320 resolution
- Pressure-sensitive, battery-free & cordless pen
- Flexible SDK is available secondary development by OCX or DLL

### Applications

ESP400M is widely used in banks, post office, retails, securities, insurance & communications, such as signing on a receipt or a contract with a personalized digital signature.

ESP400M can be embedded flexibly into customer's device to provide signature functions.

### Performance and parameters

| Panel Description |                 |
|-------------------|-----------------|
| Display Panel     | TFT LCD         |
| Panel Size        | 3.95Inch        |
| Pixels            | 480 (RGB) x 320 |

|                        |                      |
|------------------------|----------------------|
| Pixel Pitch            | 0.165×0.165mm        |
| View angle             | 120/105° (typ)       |
| Contract ratio         | 500:1                |
| White Luminance        | 250cd/m <sup>2</sup> |
| Response Time(Tr + Tf) | 16ms                 |

## Touch Description

|                  |                                      |
|------------------|--------------------------------------|
| Touch Technology | Electromagnetic Resonance technology |
| Active Area      | 83.52*55.68mm                        |
| Resolution       | 2540LPI                              |
| Pressure Level   | 1024 levels                          |
| Accuracy         | ±0.5mm (center), ±1mm (edge)         |
| Report Rate      | 200pps                               |
| Sensor height    | 7 mm                                 |
| Tilt Angle       | ±45° vertical                        |
| Pen              | Cordless and battery free            |
| Pen Tip          | Switchable                           |
| Pen Dimensions   | 9(D) x 133.6 (L)mm                   |
| Pen Weight       | 8.48g                                |
| Encryption       | AES256 / RSA2048                     |

## Power Supply

|                   |                       |
|-------------------|-----------------------|
| Power Management  | USB power (5V, 500mA) |
| Power Consumption | under 2.5 W           |
| Interface         | USB                   |

## Other Spec

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Dimension            | 103.47 x 88.78 x 6.95 mm                                                          |
| Support OS           | Windows/Linux/Android                                                             |
| Software development | Free sdk (lib,dll, ocx websocket etc) for C++,.Net and Java developers in Windows |

## Packinglist

|                |   |
|----------------|---|
| Device         | 1 |
| pen            | 1 |
| USB Cable      | 1 |
| Stylus lanyard | 1 |