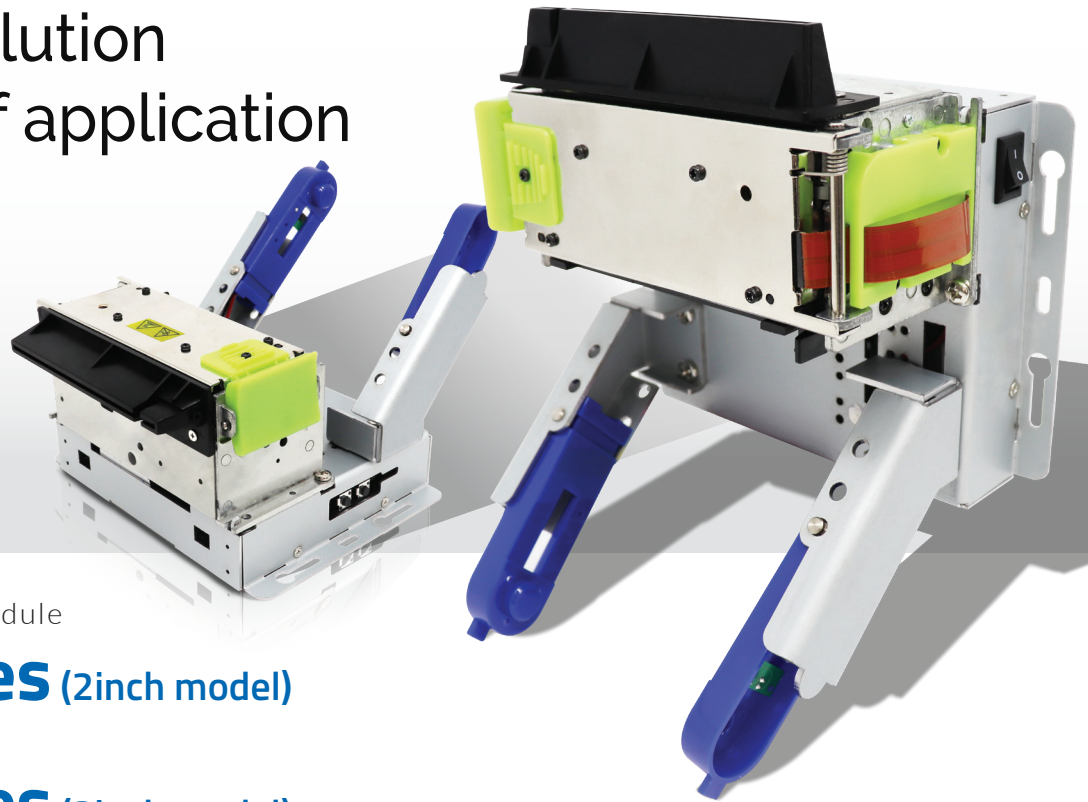# sewoo

2 inch, 3 inch Thermal
Kiosk Receipt Printer Mechanism model

Optimized solution
to a variety of application

KIOSK Thermal printer module

SMK2S Series (2inch model)
: V80, V120 / H80, H120

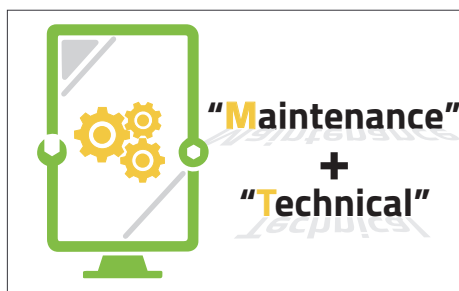## SMK3S Series (3inch model)
: V80, V120 / H80, H120

KEY FEATURES in common

Easy paper Loading with flexible paper holder

Paper remaining alarm sensor have users informing of the replacement time

Customized cutting method (Full cut or Partial cut)

"Maintenance" + "Technical"

Outstanding Ease of Development with all-in-one structure Printer + Control Board + Paper Holder

ROTATABLE

Applicable to a variety type of Kiosk with Horizontal & Vertical type of printer.

GENERAL FEATURES

- Run on a general operating systems such as Android, Window, WinCE, Java, OPOS.
- High performance and reliability with print speed 250mm/s
- Compatible with 2 types of paper type : Roll & fanfold

- 3 Paper sensors equipped Paper end, Black mark, Gap Sensor (option: Paper out sensor)
- Sturdy design to enhance Durable works in various environments.
  - Operating Temperature : 0°C to 50°C
  - Operating Humidity : 10 to 80% RH
  - Operating Voltage : 24 DCV±10% (Vp line : TPH, Step motors)

- A long product life with Abrasion resistance, 200Km
- Value added printing solution well suited for Kiosk products
- Produced by printer-expert with 23 years experiences in the filed.

Product spec sheet
Kiosk Printer model

Rev. Apr 2024
All specification and designs are subject to change without notice.

SMK2S Series — 2-Inch Kiosk Printer : V80, V120 / H80, H120
SMK3S Series — 3-Inch Kiosk Printer : V80, V120 / H80, H120

SPECIFICATIONS

PRINTER SPECIFICATIONS

Print Method
Thermal line printing

Dot density
203dpi x 203dpi

Printing direction
Unidirectional with friction feed

Printing Width
2S : 54mm (2.12"), 432 dot positions (203dpi)
3S : 72mm (2.83"), 576 dot positions (203dpi)
     80mm (3.15"), 640 dot positions (203dpi)

Characters per Line(default)
2S : Font A : 12*24 (CPL 36 or 42)
     Font B : 9*17 (CPL 42 or 48)
3S : Font A : 48 CPL (12x24)
     Font B : 64 CPL (9x17)

Printing speed
High speed mode: (203dpi x 203dpi)
2S : Approximately 250mm/sec maximum
3S : Approximately 220mm/sec maximum
(1/6inch feed) (at 24V, 20℃)

Line spacing (default):
1/6 inch (4.23mm)
Programmable by control command.

Sensor
Paper End, Paper Low End Sensor,
Black Mark, Gap (Optional : Paper Out Sensor)

REALIABILITY

MCBF
60 million lines

Cutter life
1,000,000 cuts with thickness 0.055~0.09mm,
and/or TPH Life 100km

CHARACTER SPECIFICATIONS

Alphanumeric characters : 95
Extended graphics 128 × 7 pages
(* including one space page)
International characters : 32
1) English
2) Hangul
3) Chinese (GB2312,Big5)
4) Kanji

PAPER ROLL SUPPLY DEVICE

Thermal paper specifications
Recommended : 79 ± 0.5 mm
Thickness : Thermal paper : 0.055~0.09mm
            Label paper : 0.10~0.20mm
Width : 2S : 25 ~ 60mm
        3S : 58 ~ 82mm
Outer Diameter : Ø 80 ~ 120 mm
Roll Core : Inside diameter : Ø13 mm

INTERNAL BUTTER

Receive buffer : 20 KBytes

ELECTRICAL CHARACTERISTICS

Supply voltage
+24 VDC ± 7%

Current consumption (at 24V)
Operating : Approx. 1.5A (at ASCII Printing)
Peak : Approx. 10A (at print duty 100%,
       For 10 seconds or less)
Stand-by : Approx. 0.03A

PACKING

Power Supply, AC Cord, USB, Serial Cable

ENVIRONMENTAL CONDITIONS

Temperature
Operating : 2S : 5° to 50℃
            3S : 0° to 50℃
Storage : -20° to 60℃ (except for paper)

Humidity
Operating : 10 to 90%RH
Storage : 10 to 90%RH (except for paper)

Interface
Standard : USB 2.0 / Serial (RS232C)

Emulation
ESC/POS

Driver
Windows, WinCE, Android, Java, OPOS, Linux

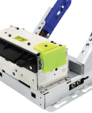**Cover open sensor**
Mechanical switch

Auto Cutter
Partial cut : Cutting with one point center uncut
Full cut : to prevent dot displacement, after cutting,
paper must be fed approximately 1mm
(14/360 inches)or more before printing.

Product types

Type	SMK2S (2-inch)	SMK3S (3-inch)
Vertical	V80 / V120	V80 / V120
Horizontal	H80 / H120	H80 / H120