

SPECIFICATIONS

| MODEL NUMBER                   | TM-P20II                                                                                                                                                                                                                                 |       | TM-P80II                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                | Bluetooth                                                                                                                                                                                                                                | Wi-Fi | Bluetooth                                                                                                                                                                                                                                                                                                                                                                                                       | Wi-Fi |
| Print Technology               | Thermal Line Printing                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Printing Method                |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Print Font                     |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Font                           | ANK: 12 x 24 / 9 x 24 (default) / 9 x 17 / 10 x 24 / 8 x 16;<br>Kanji Font: 24 x 24 / 20 x 24 / 16 x 16;<br>Special Font: 12 x 24 / 9 x 24;<br>India Font: Width x 32 / Width x 24                                                       |       | ANK(48 cl): 12 x 24 / 9 x 17 (default) / 8 x 16;<br>Jap Font: 12 x 24 / 10 x 24;<br>Kanji Font: 24 x 24 / 20 x 24 / 16 x 16;<br>Special Font: 12 x 24 / 9 x 24;<br>India Font: Width x 32 / Width x 24<br>ANK(42 cl): 13 x 24 / 9 x 17 / 8 x 16;<br>Jap Font: 13 x 24 / 10 x 17 / 8 x 16;<br>Kanji Font: 26 x 24 / 20 x 24 / 16 x 16;<br>Special Font: 12 x 24 / 9 x 24;<br>India Font: Width x 32 / Width x 24 |       |
| Character Set                  | 95 Alphanumeric, 18 set International, 128 x 43 graphics                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Barcode Standards              | Bar code: UPC-A, UPC-E, JAN8, EAN8, JAN13, EAN13, ITF, Codabar(NW-7), Code39, Code93, Code128, GS1-128, GS1 DataBar<br>2D Symbol: PDF417, QR code, Maxi Code, Data Matrix, Aztec, Two-dimensional GS1 DataBar, Composite Symbology       |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Supported Language             | ANK + Thai/Viet/India + Simplified Chinese + Traditional Chinese + Korean + Japanese + Unicode (UTF-8) <sup>*1</sup>                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Interface                      |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Bluetooth Model                | USB-C x1, Bluetooth 5.0                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Wi-Fi Model                    | USB-C x1, Wi-Fi 5.0                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Receive Data Buffer            | 64 KB   4 KB                                                                                                                                                                                                                             |       | 64 KB   4 KB                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| Print Speed                    | 100 mm/s                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Dot / Line                     | 384 dots                                                                                                                                                                                                                                 |       | 576 dots (48 column), 546 dots (42 column)                                                                                                                                                                                                                                                                                                                                                                      |       |
| Dot / Inch                     | 203 x 203 dpi                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Paper                          |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Roll Paper                     | 58 mm (57.5 ± 0.5 mm) × Dia. 18 - 40 mm                                                                                                                                                                                                  |       | 79.5 ± 0.5 mm (W) × Dia. 18 - 51 mm                                                                                                                                                                                                                                                                                                                                                                             |       |
| Media Thickness                | Max 75µm, Min 50µm                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Power                          |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Battery Type                   | Lithium Ion Battery                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Charging Port                  | USB-C                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Charging Rating                |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| 5V - 3A                        | 3 Hrs (10 - 30°C),<br>6 Hrs (0 - 10°C)                                                                                                                                                                                                   |       | 2.5 Hrs (10 - 30°C),<br>5 Hrs (0 - 10°C)                                                                                                                                                                                                                                                                                                                                                                        |       |
| 5V - 1.5A                      | 4 Hrs (10 - 30°C),<br>8 Hrs (0 - 10°C)                                                                                                                                                                                                   |       | 3 Hrs (10 - 30°C),<br>6 Hrs (0 - 10°C)                                                                                                                                                                                                                                                                                                                                                                          |       |
| 5V - 900/500mA                 | 7 Hrs (10 - 30°C),<br>14 Hrs (0 - 10°C)                                                                                                                                                                                                  |       | 14 Hrs (10 - 30°C),<br>28 Hrs (0 - 10°C)                                                                                                                                                                                                                                                                                                                                                                        |       |
| Battery Life <sup>*2</sup>     | 27 Hrs   15 Hrs                                                                                                                                                                                                                          |       | 47 Hrs   25 Hrs                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Operating Temperature          | -15 - 50°C (Normal), 0 - 40°C (While Charging)                                                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Humidity                       | 10 - 90% RH                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Reliability                    |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Printer Mechanism Life         | 10 million lines                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Thermal Printhead Life         | 50 Km                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| MTBF                           | 120,000 hours                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| MCBF                           | 16 million lines                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| IP Protection Rating           | IP54                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Drop Rating                    | 2.1m                                                                                                                                                                                                                                     |       | 1.9m                                                                                                                                                                                                                                                                                                                                                                                                            |       |
| Colour                         | Epson Black (EBCK)                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Overall Dimensions (W x D x H) | 79 x 120 x 46 mm                                                                                                                                                                                                                         |       | 105 x 138 x 57.6 mm                                                                                                                                                                                                                                                                                                                                                                                             |       |
| Weight                         | Approx. 216g                                                                                                                                                                                                                             |       | Approx. 379g                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| General Information            |                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| LED Indicators                 | Blue LED - Power, Battery Level, Interfaces (Bluetooth, Wi-Fi)<br>Orange LED - Error, Battery Charging                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Built-in Features              | Paper Reduction, Status Notification, Server Direct Print                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Printer Driver                 | Windows Driver (APD), OPOS, OPOS.NET, JavaPOS(Windows, Linux), TM Virtual Port Driver, ePOS SDK (iOS, Android, Javascript)                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Utility Tools                  | TM Utility (Android, iOS), TM-P20II/TM-P80II Utility (Windows PC), TM-Print Assistant (Android, iOS), Deployment Tool, Monitoring Tool, Epson WebConfig, TM Bluetooth Connector, Firmware Updater, BmpToRaster, ePOS-Print <sup>*3</sup> |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| Easy Setting                   | NFC                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| What's in the Box              | Belt Clip, Battery, USB Cable (Type-C to Type-C), Roll Paper, Setup Guide                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |

<sup>\*1</sup> Unicode Support applicable for languages listed above.  
<sup>\*2</sup> Battery life result may differ from usage. Testing Conditions:  
1) Battery: New 2) Start of Charging state: Full Charge 3) Print Patter: ANK 42 digits, 20 lines + paper feed for 6 lines  
4) Interval of print: Each 5 minutes 5) Environment: normal temperature (25 degree) 6) Print density: 100%  
7) Access point : CISCO AIR-LAP1142N-P-K9 8) Wi-Fi condition: beacon interval: 200ms, DTIM: interval 1, disable Broadcast  
9) Battery state: from full charge to until 0% (E level)  
<sup>\*3</sup> ePOS-Print applicable for Wi-Fi version only

MOBILE POINT-OF-SALE PRINTER  
TM-P20II/P80II

EPSON

DURABILITY  
AND VERSATILITY  
FOR ON THE FIELD  
OPERATIONS.

DIMENSIONS & WEIGHT

TM-P20II  
Weight: Approx. 216g



TM-P80II  
Weight: Approx. 379g



Consumables and Options

|                          |                         |
|--------------------------|-------------------------|
| TM-P20II                 |                         |
| Multiple Battery Charger | OT-CH20II (4 x Battery) |
| Single Battery Charger   | OT-SB20II (1 x Battery) |
| Shoulder Strap           | OT-SH01                 |
| Belt Strap               | OT-BE01                 |
| Soft Carrying Case       | OT-PC20II               |
| Lithium Ion Battery      | OT-BY20                 |

|                          |                         |
|--------------------------|-------------------------|
| TM-P80II                 |                         |
| Multiple Battery Charger | OT-CH80II (4 x Battery) |
| Single Battery Charger   | OT-SB80II (1 x Battery) |
| Shoulder Strap           | OT-SH01                 |
| Belt Strap               | OT-BE01                 |
| Soft Carrying Case       | OT-PC80II               |
| Lithium Ion Battery      | OT-BY80II               |

Legend  
dpi dots per 25.4 mm (dots per inch)

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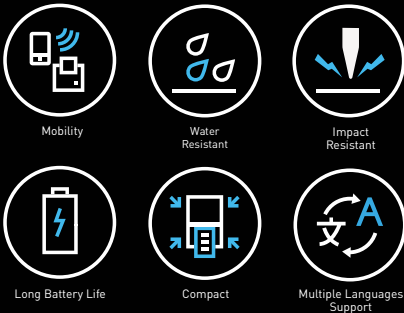
Dealer's Stamp

Information correct at time of printing.  
Printed April 2023

Durable and reliable POS printers for outdoor printing with user-friendly functions.

Designed with wearability in mind, the compact Epson TM-P20II/P80II portable receipt printer is the ideal solution for on-the-go printing with its long battery life and multiple connectivity options. With high impact protection, conforming to Ingress Protection 54 (IP54) standard for dust and liquid resistance, the portable printer is built to withstand harsh environments, ideal for outdoor work in adverse conditions.

Remember, it's in the details. [epson.com.sg/pos](https://epson.com.sg/pos)



IDC Market Opportunity Assessment for Point of Sales Printers in ASEAN, a custom research commissioned by Epson

Built For Outdoors

With high impact protection, conforming to IP54 standard for dust and liquid resistance, the TM-P20II/P80II is built to withstand outdoor use.

Outstanding Performance

Enjoy peace of mind during business operation with its long battery life of up to 47 hours\*.

Compact Ergonomic Design

Designed for convenience and wearability in mind, the portable printer is compact and lightweight, with handy optional accessories.

\*Battery life result may differ from usage.  
Note: for battery life testing condition, please refer to disclaimer [superscript \*2] under specifications page.



# ERGONOMICALLY DESIGNED FOR RELIABILITY



## ROBUST & DURABLE DESIGN

### High Impact Resistance\*

With a drop rating of 2.1m for TM-P20II and 1.9m for TM-P80II, the portable receipt printer is a trusty component for businesses that require mobility and outdoor use.

\*Unit drop test JIS C60068-2-31:2013 (IEC 60068-2-31: 2008).

### Dust Particles Resistance

Conforming to the IP54 dust resistance standard, you can conveniently use this portable printer for outdoor work or in adverse conditions.

### Liquid Resistance

Enjoy peace of mind when using your reliable TM-P20II/P80II printer with its certified IP54 splash resistance standard quality.



## CATERED FOR OUTDOOR WORK

### Long-lasting Battery Life

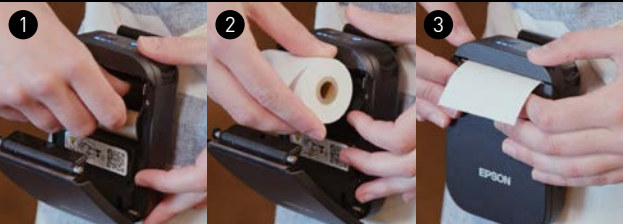
The all-new TM-P20II/P80II receipt printer comes with a long-lasting battery life that enables continuous use on both Wi-Fi and Bluetooth. Using the bundled USB Type C cable, the TM-P20II can be fully charged within 3 hours and P80II in 2.5 hours.

| TM-P20II                               | TM-P80II                               |
|----------------------------------------|----------------------------------------|
| Wi-Fi model: up to <b>15</b> hours**   | Wi-Fi model: up to <b>25</b> hours**   |
| Bluetooth model: up to <b>27</b> hours | Bluetooth model: up to <b>47</b> hours |

\*\*Enabled Power Saving Mode.  
Note: for battery life testing condition, please refer to disclaimer (superscript \*2) under specifications page.

### Convenient Paper Roll Replacement

The paper roll compartment is easily accessible even when you are wearing the TM-P20II/P80II receipt printer, allowing convenient and quick paper roll replacement in between use.



### Handy Optional Accessories



The optional shoulder and belt strap allows users to access the printer easily. An optional carrying case further protect your printer against adverse conditions.



## INTUITIVE FEATURES FOR EASY OPERATION

The TM-P20II/P80II is designed for seamless operation.

### Clear Indicator

An easy-to-see indicator that shows the printer status at a glance.

### Safety Design

With a hidden cutter design, users can operate the printer without worrying about getting injured.

### Easy-to-clean Surface

A smooth printer surface allows quick and easy cleaning while on the go.



### Compact & Wearable

Compact and lightweight, the TM-P20II/P80II receipt printer is suitable for direct-to-door, proof of delivery, marketplace receipt, and on-the-go receipt printing.

### Multiple Language Support

The versatile TM-P20II/P80II is compatible with multiple languages including Chinese, Japanese, and Korean, with UTF-8 font support\*.

\*Unicode support is only for languages listed in the specifications sheet.



## VERSATILE CONNECTIVITY

### Multiple Interface Options

