

# Ficha técnica

Epson

## Modelos / familias

ET-M16680, M15180

## Fuente del fabricante

User's Guide (v1.0)

<https://download.epson-europe.com/pub/download/6403/epson640326eu.pdf>

Las páginas siguientes son un extracto técnico del documento oficial del fabricante.

## Epson Open Platform Information

Select the menus on the control panel as described below.

### Settings > Epson Open Platform Information

Displays the status of the Epson Open Platform.

## Product Specifications

### Printer Specifications

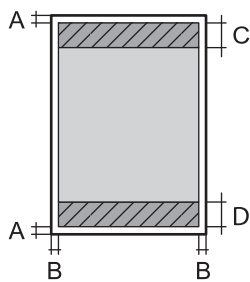
|                             |             |                                                      |
|-----------------------------|-------------|------------------------------------------------------|
| Print Head Nozzle Placement |             | Black ink nozzles: 800                               |
| Weight of Paper *           | Plain Paper | 64 to 90 g/m <sup>2</sup>                            |
|                             | Thick Paper | 91 to 256 g/m <sup>2</sup>                           |
|                             | Envelopes   | Envelope #10, DL, C6, C4: 75 to 100 g/m <sup>2</sup> |

\* Even when the paper thickness is within this range, the paper may not feed in the printer or the print quality may decline depending on the paper properties or quality.

### Printable Area

#### Printable Area for Single Sheets

Print quality may decline in the shaded areas due to the printer's mechanism.

|                                                                                     |   |                    |
|-------------------------------------------------------------------------------------|---|--------------------|
|  | A | 3.0 mm (0.12 in.)  |
|                                                                                     | B | 3.0 mm (0.12 in.)  |
|                                                                                     | C | 48.0 mm (1.89 in.) |
|                                                                                     | D | 49.0 mm (1.93 in.) |

#### Printable Area for Envelopes

Print quality may decline in the shaded areas due to the printer's mechanism.

|  |   |                    |
|--|---|--------------------|
|  | A | 3.0 mm (0.12 in.)  |
|  | B | 3.0 mm (0.12 in.)  |
|  | C | 48.0 mm (1.89 in.) |
|  | D | 49.0 mm (1.93 in.) |

## Scanner Specifications

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scanner Type          | Flatbed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Photoelectric Device  | CIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Effective Pixels      | 14040×20400 pixels (1200 dpi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Document Size | 297×431.8 mm (11.7×17 in.)<br>A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Scanning Resolution   | 1200 dpi (main scan)<br>2400 dpi (sub scan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Output Resolution     | 50 to 9600 dpi in 1 dpi increments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Color Depth           | <p>Color</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 48 bits per pixel internal (16 bits per pixel per color internal)</li> <li><input type="checkbox"/> 24 bits per pixel external (8 bits per pixel per color external)</li> </ul> <p>Grayscale</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 16 bits per pixel internal</li> <li><input type="checkbox"/> 8 bits per pixel external</li> </ul> <p>Black and white</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 16 bits per pixel internal</li> <li><input type="checkbox"/> 1 bits per pixel external</li> </ul> |
| Light Source          | LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## ADF Specifications

|                       |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| ADF Type              | Auto duplex scanning                                                                                             |
| Available Paper Sizes | A5, A4, A3, B5, B4, Executive, 16K, Indian-Legal, Letter, 8.5×13 in, Legal, 8K                                   |
| Paper Type            | Plain Paper                                                                                                      |
| Weight of Paper       | 64 to 95 g/m <sup>2</sup>                                                                                        |
| Loading Capacity      | A4, A3, B4, 16K, Indian-Legal, Letter, 8.5×13 in, Legal, 8K: 50 sheets or 5.5 mm<br>A5, B5, Executive: 20 sheets |

Even when the original meets the specifications for media that can be placed in the ADF, it may not feed from the ADF or the scan quality may decline depending on the paper properties or quality.

## Using Port for the Printer

The printer uses the following port. These ports should be allowed to become available by the network administrator as necessary.

### When the Sender (Client) is the Printer

| Use                                                                     | Destination (Server) | Protocol                    | Port Number |
|-------------------------------------------------------------------------|----------------------|-----------------------------|-------------|
| File sending (When scan to network folder is used from the printer)     | FTP server           | FTP (TCP)                   | 20          |
|                                                                         |                      |                             | 21          |
|                                                                         | File server          | SMB (TCP)                   | 445         |
|                                                                         |                      | NetBIOS (UDP)               | 137         |
|                                                                         |                      |                             | 138         |
|                                                                         |                      | NetBIOS (TCP)               | 139         |
| Email sending (When scan to mail is used from the printer)              | SMTP server          | SMTP (TCP)                  | 25          |
|                                                                         |                      | SMTP SSL/TLS (TCP)          | 465         |
|                                                                         |                      | SMTP STARTTLS (TCP)         | 587         |
| POP before SMTP connection (When scan to mail is used from the printer) | POP server           | POP3 (TCP)                  | 110         |
| When Epson Connect is used                                              | Epson Connect Server | HTTPS                       | 443         |
|                                                                         |                      | XMPP                        | 5222        |
| Control WSD                                                             | Client computer      | WSD (TCP)                   | 5357        |
| Search the computer when push scanning from Epson ScanSmart             | Client computer      | Network Push Scan Discovery | 2968        |

### When the Sender (Client) is the Client Computer

| Use                                                                                                                     | Destination (Server) | Protocol             | Port Number |
|-------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------|
| Discover the printer from an application such as EpsonNet Config, printer driver, and scanner driver.                   | Printer              | ENPC (UDP)           | 3289        |
| Collect and set up the MIB information from an application such as EpsonNet Config, printer driver, and scanner driver. | Printer              | SNMP (UDP)           | 161         |
| Forwarding LPR data                                                                                                     | Printer              | LPR (TCP)            | 515         |
| Forwarding RAW data                                                                                                     | Printer              | RAW (Port9100) (TCP) | 9100        |

| Use                                                                    | Destination (Server) | Protocol           | Port Number |
|------------------------------------------------------------------------|----------------------|--------------------|-------------|
| Forwarding AirPrint (IPP/IPPS printing) data                           | Printer              | IPP/IPPS (TCP)     | 631         |
| Searching WSD printer                                                  | Printer              | WS-Discovery (UDP) | 3702        |
| Forwarding the scan data from Epson ScanSmart                          | Printer              | Network Scan (TCP) | 1865        |
| Collecting the job information when push scanning from Epson ScanSmart | Printer              | Network Push Scan  | 2968        |

## Interface Specifications

|                         |               |
|-------------------------|---------------|
| For Computer            | Hi-Speed USB* |
| For External USB Device | Hi-Speed USB  |

\* USB 3.0 cables are not supported.

## Network Specifications

### Wi-Fi Specifications

See the following table for Wi-Fi specifications.

|                                                    |         |
|----------------------------------------------------|---------|
| Countries or regions except for those listed below | Table A |
| China                                              | Table B |

**Table A**

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Standards                        | IEEE802.11b/g/n* <sup>1</sup>                                                        |
| Frequency Range                  | 2.4 GHz                                                                              |
| Channels                         | 1/2/3/4/5/6/7/8/9/10/11/12/13                                                        |
| Coordination Modes               | Infrastructure, Wi-Fi Direct (Simple AP)* <sup>2</sup> * <sup>3</sup>                |
| Security Protocols* <sup>4</sup> | WEP (64/128bit), WPA2-PSK (AES)* <sup>5</sup> , WPA3-SAE (AES), WPA2/WPA3-Enterprise |

\*<sup>1</sup> Only available for the HT20

\*<sup>2</sup> Not supported for IEEE 802.11b

\*<sup>3</sup> Infrastructure and Wi-Fi Direct modes or an Ethernet connection can be used simultaneously.

\*<sup>4</sup> Wi-Fi Direct supports WPA2-PSK (AES) only.

\*<sup>5</sup> Complies with WPA2 standards with support for WPA/WPA2 Personal.

**Table B**

|                                  |                                                                                      |                     |                                                                                                                             |
|----------------------------------|--------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Standards                        | IEEE802.11a/b/g/n <sup>*1</sup> /ac                                                  |                     |                                                                                                                             |
| Frequency Ranges                 | IEEE802.11b/g/n: 2.4 GHz, IEEE802.11a/n/ac: 5 GHz                                    |                     |                                                                                                                             |
| Channels                         | Wi-Fi                                                                                | 2.4 GHz             | 1/2/3/4/5/6/7/8/9/10/11/12/13                                                                                               |
|                                  |                                                                                      | 5 GHz <sup>*2</sup> | W52 (36/40/44/48),<br>W53 (52/56/60/64),<br>W56 (100/104/108/112/116/120/124/128/132/136/140),<br>W58 (149/153/157/161/165) |
|                                  | Wi-Fi Direct                                                                         | 2.4 GHz             | 1/2/3/4/5/6/7/8/9/10/11/12/13                                                                                               |
|                                  |                                                                                      | 5 GHz <sup>*2</sup> | W52 (36/40/44/48)<br>W58 (149/153/157/161/165)                                                                              |
| Connection Modes                 | Infrastructure, Wi-Fi Direct (Simple AP) <sup>*3*4</sup>                             |                     |                                                                                                                             |
| Security Protocols <sup>*5</sup> | WEP (64/128bit), WPA2-PSK (AES) <sup>*6</sup> , WPA3-SAE (AES), WPA2/WPA3-Enterprise |                     |                                                                                                                             |

\*1 Only available for the HT20

\*2 The availability of these channels and use of the product outdoors over these channels varies by location. For more information, see the following website.

<http://support.epson.net/wifi5ghz/>

\*3 Not supported for IEEE 802.11b

\*4 Infrastructure and Wi-Fi Direct modes or an Ethernet connection can be used simultaneously.

\*5 Wi-Fi Direct only supports WPA2-PSK (AES) .

\*6 Complies with WPA2 standards with support for WPA/WPA2 Personal.

## Ethernet Specifications

|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Standards          | IEEE802.3i (10BASE-T) <sup>*1</sup><br>IEEE802.3u (100BASE-TX)<br>IEEE802.3az (Energy Efficient Ethernet) <sup>*2</sup> |
| Communication Mode | Auto, 10Mbps Full duplex, 10Mbps Half duplex, 100Mbps Full duplex, 100Mbps Half duplex                                  |
| Connector          | RJ-45                                                                                                                   |

\*1 Use a category 5e or higher STP (Shielded twisted pair) cable to prevent risk of radio interference.

\*2 The connected device should comply with IEEE802.3az standards.

## Network Functions and IPv4/IPv6

| Functions        |                                           |            | Supported | Remarks                                          |
|------------------|-------------------------------------------|------------|-----------|--------------------------------------------------|
| Network Printing | EpsonNet Print (Windows)                  | IPv4       | ✓         | -                                                |
|                  | Standard TCP/IP (Windows)                 | IPv4, IPv6 | ✓         | -                                                |
|                  | WSD Printing (Windows)                    | IPv4, IPv6 | ✓         | Windows Vista or later                           |
|                  | Bonjour Printing (Mac OS)                 | IPv4, IPv6 | ✓         | -                                                |
|                  | IPP Printing (Windows, Mac OS)            | IPv4, IPv6 | ✓         | -                                                |
|                  | PictBridge Printing (Wi-Fi)               | IPv4       | -         | Digital camera                                   |
|                  | Epson Connect (Email Print, Remote Print) | IPv4       | ✓         | -                                                |
|                  | AirPrint (iOS, Mac OS)                    | IPv4, IPv6 | ✓         | iOS 5 or later, Mac OS X v10.7 or later          |
| Network Scanning | Epson Scan 2                              | IPv4, IPv6 | ✓         | -                                                |
|                  | Epson ScanSmart                           | IPv4       | ✓         | Windows 7 or later, Mac OS X El Capitan or later |
|                  | Event Manager                             | IPv4       | ✓         | Windows XP, Vista, Mac OS X v10.6 to Yosemite    |
|                  | Epson Connect (Scan to Cloud)             | IPv4       | ✓         | -                                                |
|                  | AirPrint (Scan)                           | IPv4, IPv6 | ✓         | OS X Mavericks or later                          |
| Fax              | Send a fax                                | IPv4       | -         | -                                                |
|                  | Receive a fax                             | IPv4       | -         | -                                                |
|                  | AirPrint (Faxout)                         | IPv4, IPv6 | -         | -                                                |

## Security Protocol

|                           |                     |
|---------------------------|---------------------|
| IEEE802.1X*               |                     |
| IPsec/IP Filtering        |                     |
| SSL/TLS                   | HTTPS Server/Client |
|                           | IPPS                |
| SMTPS (STARTTLS, SSL/TLS) |                     |
| SNMPv3                    |                     |