COBISS[®]

Co-operative Online Bibliographic System & Services

SPO – Systems support *Epson TM-T20II User Guide* SPO-NA-EN-115, V3.0

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1 Printer description

The following items are included in the printer package:

- 1. printer
- 2. installation disc
- 3. AC adapter 220V
- 4. AC cable 220V
- 5. USB interface cable
- 6. accessories for wall mounting and vertical installation



Figure 1: Contents of printer package

Part names:

- 1. roll paper cover
- 2. cutter cover

- 3. power switch
- 4. cover open lever
- 5. control panel





2 Connecting the printer

The printer can have the following interfaces:

- 1. RS-232 serial interface
- 2. USB interface
- 3. 10BASE-T/100BASE-TX Ethernet interface
- 4. drawer kick-out connector



Figure 3: Interface types

Connect the AC cable to DC24V (see Figure 3 and Figure 4).



Figure 4: Power supply connection

3 **Printer use**

3.1 Installing roll paper

How to install the roll paper correctly:

1. Use the cover open lever to open the roll paper cover. Insert the roll paper facing in the right direction (see Figure 5).



Figure 5: Opening the cover and installing the roll paper

2. Pull out some paper and close the roll paper cover. When the printer power is on, the roll paper is automatically cut.



Figure 6: Closing the roll paper cover

3.2 Cleaning the thermal head

The manufacturer recommends cleaning the thermal head periodically every three months of regular daily use.

Cleaning procedure:

Turn off the printer and open the roll paper cover. The thermal head can be very hot after printing; let it cool before you clean it. Clean the thermal head with a cotton cloth moistened with alcohol solvent (ethanol or IPA) (see Figure 7).



Figure 7: Thermal head

4 Technical specifications

		80 mm paper width	58 mm paper width ^{*1}
Printing method		Thermal line printing	
Printing speed		200 mm/s {7.87"/s} max.; 53.3 lps (3. Ladder bar code and 2D symbo	75 mm {0.15"} feed) I: 100 mm/s {3.93"/s}
		The above speed values are approxi The values are when the printer prints Speed is adjusted automatically dep head temperature.	mate. with density "Normal" at 25°C {77°F}. ending on the voltage applied and
Roll paper	Width	79.5 mm ± 0.5 mm {3.13" ± 0.02"}	57.5 mm ± 0.5 mm {2.26" ± 0.02"}
(single-ply)	Diameter	Maximum outside diameter: 83 mr	m {3.27"}
	Spool	Spool diameter: Inside: 12 mm {0.4	17"}; Outside: 18 mm {0.71"}
Thermal paper t	уре	NTP080-80	NTP058-80
Interface		Serial (RS-232)/Ethernet (10BASE-T/ USB 2.0, Communication speed: Fr	100BASE-TX)/USB (Compliance: ull-speed (12 Mbps))
Power supply ^{*3}		DC + 24 V ± 7%	
Temperature		Operating: 5 to 45°C {41 to 113 Storage: -10 to 50°C {14 to 12	°F} 22°F}, except for paper
Humidity		Operating: 10 to 90% RH Storage: 10 to 90% RH, excep	ot for paper
Overall dimensi	ons	140 × 199 × 146 mm {5.75 × 5.51 ×	7.83"} (W × D × H)
Weight (mass)		Approx. 1.7 kg {3.74 lb}	

Figure 8: Technical specifications of the printer

5 Driver installation and printer settings

5.1 Driver installation

When installing the printer driver, we recommend downloading the latest version of the driver from the manufacturer's official website, which is accessible at <u>https://download.epsonbiz.com/modules/pos/index.php?page=prod&pcat=3&pid=3721</u>.

After you click on the link, follow these steps:

1. Click the **Windows Printer Driver** row and download the **EPSON Advanced Printer Driver for TM-T20II Ver.5.07E** installer. Install the driver to the computer by following the installation procedure.

	EPSON GLOBAL	REGISTER ENGLISH
	NSCPRODUCER DOT MATRIX COLORWORKS	
EXCEED YOUR VISION DOWNLOAD	TECH.REFERENCE TM-INTELLIGENT	
Members and Epson Partners	Password If you have forgotte	n your Login
	E PRINTER » TM-T2011 - Software & Document	
DOWNLOAD		
٩	TM T201	Product
PRODUCTS 🔺	1111-12011	
TM-Intelligent Printer	Collapse All Expand All	
Thermal line Printer		
Label Printer (Label, Ticket etc.)	Software	
Impact Dot Matrix Printer	Windows Printer Driver	*
Slip Printer	EPSON Advanced Printer Driver for TM-T20II Ver 5 07E	Download page
Hybrid Printer	Patch program for privilage occulation vulnorability of EDCON Notwork Utility	
Mobile Printer	Ver.1.0.1.0	Download page
Inkjet Printer	Linux Printer Driver	•
Fiscal Printer	Mac OS Printer Driver	•
Image Scanner	Virtual Port Driver	•
POS Terminal	OPOS ADK	•
Embedded Unit		
Printer Mechanism	OF US ADK TOT INCL	•
BA Series	JavaPOS ADK	•
Interface Board	SDK for Windows	•
SOFTWARE 🗸	SDK for Android	•
	001/ 6-+ 100	

Figure 9: Epson TM-T20II Ver 5.07E software

2. After clicking the **Setting Utility for Products** row, select and install the **TM-T20II Utility Ver.1.20**.

Image Scanner	OPOS ADK for .Net	•
Customer Display	JavaPOS ADK	•
POS Terminal	SDK for Windows	•
Printer Mechanism	SDK for Android	•
BA Series	SDK for iOS	•
Interface Board	SDK for JavaScript	•
OFTWARE T	Setting Utility for Products	
	Patch program for privilege escalation vulnerability of EPSON Network Utility Ver.1.0.1.0	Download page
List of All Products	TM-T20II Utility Ver.1.20	Download page
	EPSON Deployment Tool Ver.1.60a	Download page
	EPSON Monitoring Tool Ver.2.20a	Download page
	Epson TM Utility (for iOS or Android)	Download page

Figure 10: Epson TM-T20II Utility Ver.1.20

After installing the driver and the utility, connect the printer to the computer. In the **Devices and Printers** window, an icon of the printer with the installed **EPSON TM-T20II Receipt5** driver will appear.



Figure 11: EPSON TM-T20II printer icon

5.2 Setting up the printer IP address via the network connection

The IP address of the printer (*only possible for a version with a network interface*) is set with the help of the EpsonNet Config tool, which is downloaded from the manufacturer's website at <u>https://download.epson-biz.com/modules/pos/index.php?page=prod&pcat=3&pid=3721</u>.

SUK TOF WINDOWS	•
SDK for Android	•
SDK for iOS	•
SDK for JavaScript	•
Setting Utility for Products	•
Setting Utility for Interface	
EpsonNet Config (for Windows OS) Ver.4.9.4	Download page
EpsonNet Config (for MAC OS) Ver.4.9.4	Download page
	SDK for Android SDK for IOS SDK for JavaScript Setting Utility for Products Setting Utility for Interface EpsonNet Config (for Windows OS) Ver.4.9.4 EpsonNet Config (for MAC OS) Ver.4.9.4

Follow the installation procedure and install the software on the computer.

If the EpsonNet Config tool is already installed, run it by clicking **Start – All Programs – EpsonNet – EpsonNet Config**.

- 1. First, add or decline a Firewall exception.
- 2. Check if the printer is on the list. If it is not, press F5 to refresh the list.
- 3. Select the printer from the list and click **Configuration**. Select **Network Interface TCP/IP Basic**. Tick the options **Manual** and **Set using PING**. Set the IP address, the subnet mask and the default gateway.

🔯 EpsonNet C	Config	173 1110 73KL LIKI	I CALL INTALLE LICH NICH	- D X	
Device(D) Dis	play(V) Tools(T) Help(H)				
Eps Col	sonNet			EPSON	
📀 Refresh	Configuration 🚛 Launch	Browser	Filter: (All)		~
Model Name	MAC Address	IP Address	Route		
EpsonNe	t Config				×
2	To make settings using this utility, If it is not registered as an exceptic Do you want to register EpsonNet	you need to registe on, some communie Config as an except	er it as an exception to the Win cation functions may be block tion to the Windows Firewall?	ndows Firewall. ted by the Windows Firewall, which could li	mit functionality.
			Yes(Y) No(<u>N</u>)]	
Press the [F5] key	y to refresh.			Searching	

Figure 13: Installing and registering the EpsonNet Config software



Figure 14: Selecting the printer in the EpsonNet Config software

182		114				
1000		the second se		18		188
4101		218	1	.396	100	4
192	1	14	21	18		1
	ng	142	FE2 . 164			

Figure 15: Basic settings of the printer's IP address

4. Lastly, click **Transmit**. The settings will be transmitted to the printer. In the final dialog box, click **OK**.

Transmis	sion is complete.
Configu	ration successfully completed.
Current 0%	Progress
	ОК

Figure 16: Dialog box for the communication with printer

5. Close the EpsonNet Config software.

5.3 **Printer settings**

Printer settings are managed with the TM-T20II Utility tool. Run Start – All Programs – EPSON – TM-T20II Software – TM-T20II Utility.

The TM-T20II Utility Ver 1.20 window will open.

TM-T20II Utility Select Printe If the port to y	er and Click [OK] Butto	n. ted is not listed, add it by clicking	×
button.	T-1		
TM-T20II	USB	001	
Add Port	Delete Port		

Figure 17: TM-T20II Utility window

Select the installed printer (indicated in blue) and confirm your selection by clicking the **OK** button. The **Current settings** window will open.

Current Settings	Current Settings		
Operation Check	Storing Logos:	The number of stored logos : 0	
Storing Logos		Memory usage 0 KB, Total 256 KB	
Coupon Settings	Coupon Settings:	Do not print	
Paper Reduction	Paper Reduction Settings:	Disabled	_
Automatic Paper Cut	Automatic Paper Cut Settings:	Cut paper when the cover is closed.	_
	Printing Control Settings:	Paper Width and Column : 80mm - 42 columns	_
[Advanced]	Fact Cattinger	Print density : 115%	_
Printing Control	Font Setungs:	Loue page : PCo52 (Lauri 2)	_
Frinting Control	Optional Buzzer Settings:	Disabled	_
Font	Communication I/F Settings:	Interface type : USB, ESDPRT001	_
Optional Buzzer	, ,	USB Printer Class	_
Communication I/F			
Backup/Restore			
		Details	
TM-T20II 5.02 ESC/POS Port: USB-001	Alphanumeric Status: Offline	Serial No: TC8Y052380	

The following settings should be selected under **Font settings**:

- Code page: PC852 (Latin 2)
- International character set: Slovenia / Croatia

If the displayed settings are different, click the **Font** button. Set the required parameters in the window that will open.

SPO

🗬 TM-T20II Utility Ver.1.20		– 🗆 X
Current Settings	Font Settings	
Operation Check		
Storing Logos	If you are using UPOS, you need to set	the font on the UPOS.
Coupon Settings	Code-page:	PC852 (Latin 2) 🗸
Paper Reduction	International character set:	USA 🗸
Automatic Paper Cut		L
[Advanced]		
Printing Control		
Font		
Optional Buzzer		
Communication I/F		
Backup/Restore		
		Set Test Print
TM-T20II 5.02 ESC/POS Port: USB-001	Alphanumeric Status: Offline	Serial No: TC8Y052380
Ī	Figure 19: Font sett	ings window

When you click the **Set** button, the settings will be transmitted to the printer. A dialog box will open and your will hear the printer click. After that you can close the application.

5.4 Lending form print settings

Pay special attention to printer settings when **printing a lending form with more than 50 items**. In such cases, the lending form is longer than one A4 page, which means that its length exceeds 297 mm. The default setting is **Roll Paper 80 x 297 mm**, which does not meet the abovementioned requirements.

General Sharing	Ports Adva	anced Color Manager	nent Security	Device Settings	Version	
Always avail	able					
O Availa <u>b</u> le fro	m 12:0	0 AM 🗘	Го 12:00	AM 🗘		
Priorit <u>y</u> :	1	,		,		
Dri <u>v</u> er: E	PSON TM-T2	011 Receipt5	~	Ne <u>w</u> Driver		
Spool print of the second s	documents so	program finishes pri	nting faster			
○ S <u>t</u> art prin	nting after last	page is spooled				
Start print	nting <u>i</u> mmedia	ately				
O Print directly	to the printe	r				
<u>H</u> old misma	tched docum	ents				
✓ P <u>r</u> int spoole	d documents	first				
Keep printed	d documents					
Enable adva	nced printing	features				
Printing De	<u>f</u> aults	Print Processor	Sepa	rat <u>o</u> r Page		
			(OK Can	cel <u>A</u> p	ply

The required setting, which is suitable for printing all lending forms, is **Roll Paper 80 x 3276 mm**, which you set in the **printer's driver**. In the Printer Properties, select the Advanced tab and click the Printing Defaults... button. In the new EPSON TM-T20II Receipt5 Printing Defaults window, click the Advanced... button to proceed.

Layout	Paper/Quality	Feed and Cut	Peripherals	Advanced Settings	Version	Language	
Orien	tation:						
A	Portrait		~				
				_			
				=			
						Ad <u>v</u> anced	ł
						0 1	

Figure 21: Advanced... settings



In the EPSON TM-T20II Receipt5 Advanced Options window, select the Paper Size option in the Paper/Output drop-down menu and then select the value Roll Paper 80 x 3276. Confirm your selection by clicking the OK button and close the printer driver window.

6 Using the printer within the COBISS3 system

6.1 COBISS3

In the COBISS3 software in the logical destinations, select the printer you intend to use for printing lending forms. Select **System / Settings / Logical destinations**.

N CODISC2 [c2 ablem - cust			
Custom Deperte Clas	eng		
System Reports Clas	s Object Workspace Queries Shortcuts Help		
Local code lists	6		
Queue editor	Workspace	Class attributes of	
Job editor		Attribute name	Value
Settings <	Set font		
Messages •	User destinations		
Server •	Logical destinations		
Exit	Personal add Edits logical doctinations		
Acquisitions	Set date for loan procedures		
►	Profile editor		
Electronic resource	es		
Holdings			
► 🚞 Loan			
Interlibrary loan			
Application admin	istration		
		Related objects	
	Shortcuts		
Queries			
Messages (0)			
(messages (0)			

Figure 23: Editing Logical destinations

The **Logical destinations editor** window will open, where you select the option *Lending form – Loan: [default local printer]* and click the **Edit** button.

Label – material, 50 x 25: [default local printer]	
Label – material, 75 x 50: [default local printer]	
Delivery note (for Accounting) – ILL: [default local printe	er]
Printer – Loan: [default local printer]	
Overdue notices (envelopes) – Loan: [default local prin	nter]
Lending form – Loan: [default local printer]	
Label – Loan (member): [default local printer]	
Printer - cash register drawer: [default local printer]	
Card – Loan (member): [default local printer]	
Invoice – Loan: [default local printer]	

Figure 24: Lending form – Loan option

The User destinations window will open. Click the Add printer button. In the new window, select the *Epson TM-T20II* printer, which you intend to use for printing lending forms, from the drop-down list.

** • • •		~
C Printer		~
Printer:	EPSON TM-T20II Receipt5	•
Number of copies:	1	
Details	OK Cancel	

Figure 25: Select the EPSON TM-T20II printer

Once you select the printer, click the **Details** button to check if the detailed settings for this type of printer are correct. Lending forms are printed in the graphics printing mode.

💆 Details	×
Printing mode:	graphics •
Printer type:	v
Printer subtype:	v
Printing style:	single sided •
Orientation:	portrait
(OK Cancel

Figure 26: Setting the graphics printing mode

Logical destinations		
Label – material, 50 x 25: [default local printer]		
Label – material, 75 x 50; [default local printer]		
Delivery note (for Accounting) - ILL: [default local p	printer]	
Printer - Loan: [default local printer]		
Overdue notices (envelopes) - Loan: [default local	printer]	
Lending form – Loan: (Printer: EPSON TM-T20II Re	eceipt5) [default local printer]	
Label – Loan (member): [default local printer]		
Printer - cash register drawer: [default local printer]]	
Card – Loan (member): [default local printer]		
Invoice – Loan: [default local printer]		
Edit Default (desc	OK Car	ncel

Figure 27: Confirmed printer selection

When you define the settings, confirm every selection by clicking the **OK** button. When you are finished, click **Refresh settings** in the **System** menu. If that option is not available, refresh the new settings by logging out and the re-logging into the COBISS3 software.

COBISS3 [c3_nbkm - system	n]		- 🗆 X
System Reports Class	Object Workspace Queries Shortcuts Help		
Local code lists			
Queue editor	Workspace	Class attributes of	
Job editor		Attribute name	Value
Settings <	ord		
Messages	CONOR)		
Server	Change passwords		
Exit	Refresh settings		
Acquisitions	Show s Refresh settings		
Serials	Activities og		
Electronic resource	COBISS3 log		
► Foldings	Show logged in users		
Ellipterlibrary loan	Show logged in users		
Application administration	stration		
		Polatod objects	
	0	Related objects	
	Shortcuts		
Queries			
L			
Messages (0)			

Figure 28: Refresh the settings