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# TM-UIB

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## Combination Specification

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STANDARD	
Rev. No.	D
Notes	

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**SEIKO EPSON CORPORATION**

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# REVISION SHEET

Sheet 1 of 2

The table below indicates which pages in this specification have been revised.

Before reading this specification, be sure you have the correct version of each page.

Revisions		Design Section			Sheet Rev. No.						
Rev.	Document	WRT	CHK	APL	Sheet	Rev.	Sheet	Rev.	Sheet	Rev.	
A	Enactment	Aruga	--	Yamaji	I	D					
B	Change	Aruga	--	Yamaji	II	B					
C	Change	Kimura	Aruga	Yamaji	III	D					
D	Change	Kimura	Aruga	Yamaji							
					1	C					
					2	D					
					3	D					
					4	D					
					5	D					
					6	D					
					7	D					
TITLE  TM-UIB Combination Specification (STANDARD)				Front Part					Contents	Appendix	Total
				Cover	Rev. Sheet	Scope	General Description	Table of Contents			
				1	2	-	2	1			

**REVISION SHEET**

Sheet 2 of 2

REV.	SHEET	CHANGED CONTENTS
B	All	All pages are revised.
	3, 5, 6, 8	TM-H6000III with Image Scanner (Gray Scale Mode/Photo-ID Model) (added)
C	1	1. APPLICATION Changed "When connecting a TM printer and UIB, ... corresponding EMI level may become different." to "Two different EMI classes may be applied ... for the final EMI class applied, if necessary."
	4 to 8	Added a newly supported model (UB-R03).
	5	3. TM-UIB COMBINATION CHART (In the chart) Added "U03" and "U03II" to the UIB model name. UB-S01, UB-E02 x TM-J9000/J9100: Corrected "N" to "A."
	6	4. SETTINGS ON THE TM SIDE UB-E02A x TM-T88, TM-T88II: Corrected "P" to "N."
D	I	Trademarks Changed "EPSON® and ESC/POS® are registered trademarks of Seiko Epson Corporation in the United States and other countries." to "EPSON and ESC/POS are registered trademarks of Seiko Epson Corporation in Japan and other countries/regions."
	2	Eliminated the TM-printers that cannot use UIBs from the list.
	3 to 7	Added UB-R03A in the lists.
TITLE		
<b>TM-UIB</b> Combination Specification (STANDARD)		

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<b>EPSON</b>	TITLE  <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT II	SHEET I

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## Points You Must Observe To Assure Product Safety

In order to assure the safe operation of this product, carefully observe the specifications as well as the notes provided below.

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<b>EPSON</b>	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  B	NO.	
			NEXT III	SHEET II

**TABLE OF CONTENTS**

1. APPLICATION.....	1
2. UIB STRUCTURE OF TM PRINTERS.....	2
3. TM-UIB COMBINATION CHART .....	3
4. SETTINGS ON THE TM SIDE .....	5
5. DM-D CONNECTION.....	6

<b>EPSON</b>	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT 1	SHEET III

## 1. APPLICATION

This specification document specifies the possible combinations of TM printers and UIBs, and the settings necessary to use them in combination.

A UIB is an optional interface board developed for TM printers. With a UIB, TM printers can accept various kinds of interfaces.

- NOTES:
1. Some TM printers and UIBs listed in this specification document are not sold or are discontinued, depending on the sales territory.
  2. Two different EMI classes may be applied to the TM printer and the UIB used. When using such a TM printer and a UIB in a combination, the actual EMI class applied to them two may be different from the original EMI class applied when they are separate. For example, if a Class X TM printer is used in combination with a Class Y UIB, the actual EMI class applied to this unit may become Class Y. Therefore, check the specification document of both the TM printer and the UIB used for the final EMI class applied, if necessary.

<b>EPSON</b>	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  C	NO.	
			NEXT 2	SHEET 1

**2. UIB STRUCTURE OF TM-PRINTERS**

The chart below shows TM-printers that UIBs can be installed in. Any printers that are not listed in this chart cannot use UIBs. See "3. TM-UIB combination chart" for the actual availability of TM and UIB combination.

TM Printer	Remarks
TM-H5000	
TM-H5000II	
TM-H5200	
TM-H6000	
TM-J2000/J2100	
TM-J8000	
TM-L90	
TM-T285	
TM-T88	
TM-T88II	
TM-T88III	
TM-T90	
TM-U200/U210	
TM-U230	
TM-U325D	
TM-U590	
TM-U675	
RP-U420	
TM-H6000II/H6000III	
TM-H6000II/H6000III with Image Scanner (Gray Scale Model/Photo-ID Model)	
TM-J7000/J7100	
TM-J7500/J7600	
TM-J9000/J9100	
TM-T70	
TM-T88IV	
TM-U220	

<b>EPSON</b>	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT 3	SHEET 2

## 3. TM-UIB COMBINATION CHART

The chart below shows which combinations of TM printers and UIB work.

	S01	S02	S09	P01 P02	P02II	U01 U02 U01II U02II U01III U02III	U04	U03 U03II U09	E01	E02	E02 A (*)	R02	R02A (*)	R03	R03A (*)	U05 U06 U19	Restrictions on firmware versions
TM-H5000	A	A	A	B	B	B	B	B	B	B	N	B* <sup>1</sup>	N	B	N	N	
TM-H5000II	A	A	A	B	B	A	A	A	A	A	A	A* <sup>1</sup>	A* <sup>1</sup>	A	A	N	Offline transmission is supported only by 3.40/5.00 or later.
TM-H5200	A	A	A	B	B	A	A	A	A	A	N	A* <sup>1</sup>	N	A	N	N	
TM-H6000	A	A	A	B	B	A	A	A	A	A	N	A* <sup>1</sup>	N	A	N	N	Offline transmission is supported only by 1.20 or later.
TM-J2000/J2100	A	A	A	N	B	A	A	A	A	A	A	A	A	N	N	N	
TM-J8000	A	A	A	B	B	B	N	B	B	N	N	B	N	B	N	N	
TM-L90	A	A	A	N	B	A	A	A	A	A	A	A	A	A* <sup>3</sup>	A* <sup>3</sup>	N	
TM-T285	A	A	A	B	B	B	B	B	B	N	N	B	B	B	B	N	
TM-T88	A	A	A	B	B	B	B	B	B	B	N	B	N	B	N	N	
TM-T88II	A	A	A	B	B	A	A	A	A	A	N	A	N	A	N	N	Offline transmission is supported only by 3.40 or later.
TM-T88III	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	N	
TM-T90	A	A	A	N	B	A	A	A	A	A	A	A	A	A* <sup>3</sup>	A* <sup>3</sup>	N	
TM-U200/U210	A	A	A	B	B	B	B	B	B	B	N	B	N	B	N	N	
TM-U230	A	A	A	B	B	A	A	A	A	A	N	A	N	A	N	N	
TM-U325	A	A	A	B	B	B	B	B	B	B	N	B	N	B	N	N	
TM-U590	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	N	Offline transmission is supported only by 3.40/5.00 or later.
TM-U675	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	N	Offline transmission is supported only by 1.20 or later.
RP-U420	A	N	N	B	B	N	N	N	N	N	N	N	N	N	N	N	

(\*) UB-E02A, UB-R02A, UB-R03A: Available only in Japan market

EPSON	TITLE TM-UIB Combination Specification (STANDARD)	SHEET REVISION D	NO.	
			NEXT 4	SHEET 3

# Confidential

	S01	S02	S09	P01 P02	P02II	U01 U02 U01II U02II U01III U02III	U04	U03 U03II U09	E01	E02	E02A (*)	R02	R02A (*)	R03	R03A (*)	U05 U06 U19	Restrictions on firmware versions
TM-H6000II/H6000III	A	A	A	B	B	A	A	A	A	A	N	A <sup>*1</sup>	N	A	N	N	
TM-H6000II/H6000III with Image Scanner (Gray Scale Model/ Photo-ID Model)	A	A	A	B	B	N	N	N	A	A	N	A <sup>*1</sup>	N	A	N	A	
TM-J7000/J7100	A	A	A	N	B	A	A	A	A	A	N	A <sup>*1</sup>	N	A <sup>*3</sup>	N	N	
TM-J7500/J7600	A	A	A	N	B	A	A	A	A	A	N	A <sup>*1</sup>	N	A <sup>*3</sup>	N	N	
TM-J9000/J9100	A	N	N	N	B	N	N	N	N	A	N	N	N	N	N	N	
TM-T70	A	A	A	B	B	A	A <sup>*2</sup>	A <sup>*2</sup>	A	A	N	A	N	A <sup>*3</sup>	N	A	
TM-T88IV	A	A	A	B	B	A	A <sup>*2</sup>	A <sup>*2</sup>	A	A	N	A	N	A <sup>*3</sup>	N	A	
TM-U220	A	A	A	B	B	B	B	B	B	B	N	B	N	B	N	N	

(\*) UB-E02A, UB-R02A, UB-R03A: Available only in Japan market

A: Can be connected (Transmission from the host PC is enabled even when the TM printer is offline. However, note the restrictions on firmware versions above.)

B: Can be connected (Transmission from the host PC is disabled when the TM printer is Offline.)

N: Cannot be connected

Note that some of the old products of the following printers may not work as described above:


TM-U200, TM-U210, TM-U325, TM-U590

\*1: Although UIB interfaces can be connected to TM printers with MICR function, the combination is not recommended for security reasons.

\*2: Although these combinations are possible, it is recommended to use the UB-U05, UB-U06 or UB-U19.

\*3: Functions only when the version of the firmware on the TM printer is as shown below or later:

TM-L90	Ver 1.08ESC/POS, 1.07ESC/POS-J, 1.07ESC/POS-M
TM-T90	Ver 1.09ESC/POS, 1.08ESC/POS-J, 1.06ESC/POS-M
TM-J7000/TM-J7100	Ver 1.07ESC/POS
TM-J7500/ TM-J7600	Ver 1.04ESC/POS
TM-T70	Ver 1.03ESC/POS, 1.02ESC/POS-J, 1.01ESC/POS-J(80)
TM-T88IV	Ver 10.03ESC/POS, 10.03ESC/POS(58)

	<b>TITLE</b> <b>TM-UIB</b> Combination Specification (STANDARD)	<b>SHEET REVISION</b>  D	<b>NO.</b>	
			<b>NEXT</b> 5	<b>SHEET</b> 4

## 4. SETTINGS ON THE TM SIDE

When using the UIBs listed below, each TM printer must be set as shown in the table below.

	U01/U01III/U01III U02/U02II/U02III U03/U03II U09 (When using USB interface)	U04	E01	E02	E02A (*)	R02	R02A (*)	R03	R03A (*)
TM-H5000	P	P	P	P	N	P	N	P	N
TM-H5000II	P	P	P	P	P	P	P	P	P
TM-H5200	P	P	P	P	N	P	N	P	N
TM-H6000	P	P	P	P	N	P	N	P	N
TM-J2000/2100	P	P	P	#25	#25	P	P	N	N
TM-J8000	P	N	P	N	N	P	N	P	N
TM-L90	P	P	P	#25	#25	P	P	P	P
TM-T285	P	P	P	N	N	P	P	P	P
TM-T88	P	P	P	P	N	P	N	P	N
TM-T88II	P	P	P	P	N	P	N	P	N
TM-T88III	P	P	P	P	P	P	P	P	P
TM-T90	P	P	P	#25	#25	P	P	P	P
TM-U200/210	P	P	P	P	N	P	N	P	N
TM-U230	P	P	P	P	N	P	N	P	N
TM-U325	P	P	P	P	N	P	N	P	N
TM-U590	P	P	P	P	P	P	P	P	P
TM-U675	P	P	P	P	P	P	P	P	P
RP-U420	N	N	N	N	N	N	N	N	N
TM-H6000II/H6000III	P	P	P	P	N	P	N	P	N
TM-H6000II/H6000III with Image Scanner (Gray Scale Model/Photo-ID Model)	N	N	P	P	N	P	N	P	N
TM-J7000/J7100	P	P	P	#25	N	P	N	P	N
TM-J7500/J7600	P	P	P	#25	N	P	N	P	N
TM-J9000/J9100	N	N	N	#25	N	N	N	N	N
TM-T70	P	P	P	P	N	P	N	P	N
TM-T88IV	P	P	P	P	N	P	N	P	N
TM-U220	P	P	P	P	N	P	N	P	N

(\*) UB-E02A, UB-R02A, UB-R03A: Available only in Japan market

P: The settings are the same as those of the parallel interface.

#25: Enable the pin #25 reset signal of the memory switch.

N: Cannot be connected

EPSON	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT 6	SHEET 5

# Confidential

## 5. DM-D CONNECTION

The chart below shows availability of DM-D connection for each combination of TM printer and UIB.  
DM-Ds must be serial interface models. Do not connect USB interface models.

TM \ UIB	UIB	S01	S02	S09	P01 P02	P02II	U01 U02 U01II U02II U01III U02III	U03 U03II	U04	U09	E01	E02	E02A (*)	R02	R02A (*)	R03	R03A (*)	U05 U06 U19	Supplement
	DMC	No	No	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	
TM-H5000	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-H5000II	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	N	N	N	N	N	X	
TM-H5200	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-H6000	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-J2000/J2100	Yes	A	A	AB <sup>*2</sup>	X	N	B	N	N	A <sup>*1</sup>	N	N	N	N	N	X	X	X	
TM-J8000	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	X	A <sup>*1</sup>	N	X	X	N	X	N	X	X	
TM-L90	No	(N)	N	B	X	N	B	N	N	N	N	N	N	N	N	N	N	X	
TM-T285	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	X	X	N	N	N	N	X	
TM-T88	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	
TM-T88II	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	
TM-T88III	No	(N)	N	B	N	N	B	N	N	N	N	N	N	N	N	N	N	X	
TM-T90	No	(N)	N	B	X	N	B	N	N	N	N	N	N	N	N	N	N	X	
TM-U200/U210	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	
TM-U230	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	
TM-U325	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	
TM-U590	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	N	N	N	N	N	X	
TM-U675	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	N	N	N	N	N	X	

(\*) UB-E02A, UB-R02A, UB-R03A: Available only in Japan market

EPSON	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT 7	SHEET 6

# Confidential

TM	UIB	S01	S02	S09	P01 P02	P02II	U01 U02 U01II U02II U01III U02III	U03 U03II	U04	U09	E01	E02	E02A (*)	R02	R02A (*)	R03	R03A (*)	U05 U06 U19	Supplement
	DMC	No	No	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	
RP-U420	No	(N)	X	X	N	N	X	X	X	X	X	X	X	X	X	X	X	X	
TM-H6000II/H6000III	Yes	A	A	AB <sup>*2</sup>	N	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-H6000II/H6000III with Image Scanner (Gray Scale Model/Photo-ID Model)	Yes	A	A	AB <sup>*2</sup>	N	N	X	X	X	X	N	N	X	N	X	N	X	A	
TM-J7000/J7100	Yes	A	A	AB <sup>*2</sup>	X	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-J7500/J7600	Yes	A	A	AB <sup>*2</sup>	X	N	B	N	N	A <sup>*1</sup>	N	N	X	N	X	N	X	X	
TM-J9000/J9100	No	(N)	X	X	X	N	X	X	X	X	X	N	X	X	X	X	X	X	
TM-T70	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	N	
TM-T88IV	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	N	
TM-U220	No	(N)	N	B	N	N	B	N	N	N	N	N	X	N	X	N	X	X	

(\*) UB-E02A, UB-R02A, UB-R03A: Available only in Japan market

A: Y connection of the DM-D connector on the TM printer is supported.

B: Y connection of the DM-D connector on the UIB is supported.

(N): Y connection is not supported, but pass-through connection is supported.

N: DM-D connection is not supported under this TM-UIB combination.

X: The TM printer cannot be connected to the UIB.

\*1: Supported only when serial interface is selected.

\*2: Although connecting to the DM-D connector on either the TM printer or the UB-S09, connecting to the TM printer is recommended.  
Observe the settings described in the UB-S09 specifications.

DMC: DM-D Connector. These columns indicate if a DM-D connector is available for the TM printer.

<b>EPSON</b>	TITLE <b>TM-UIB</b> Combination Specification (STANDARD)	SHEET REVISION  D	NO.	
			NEXT END	SHEET 7