

## Optional product list of IECUBE for 78K0R

We ended sales of the IECUBE set (main unit, socket, and other items) at the end of May 2015.

If you wish to purchase the product, please separately purchase the main IECUBE unit (QB-xxxxxxx-ZZZ), socket, and other required items.

Each link on product number is set with the URL for User's manual document.

Click here for information about [\[Power-supply adapter QB-COMMON-PW-xx\]](#) (optional).

MCU	Package	IECUBE main unit	Socket Set				Option	
			Exchange Adapter	YQ Connector	Target Connector	Emulation Probe	Mount Adapter	Space Adapter
78K0R/KE3	64-pin FBGA (5x5)	QB-78K0RKX3-ZZZ*1	<a href="#">QB-64F1-EA-01T*1</a>	-	<a href="#">QB-64FC-NQ-01T*1</a>	QB-144-EP-02S	-	-
	64-pin FBGA (6x6)		<a href="#">QB-64F1-EA-04T*1</a>	-	<a href="#">QB-64F1-NQ-02T*1</a>		-	-
	64-pin LQFP (7x7)		<a href="#">QB-64GA-EA-02T*1</a>	<a href="#">QB-64GA-YQ-01T</a>	<a href="#">QB-64GA-NQ-01T*1</a>		<a href="#">QB-64GA-HQ-01T*1</a>	<a href="#">QB-64GA-YS-01T*1</a> YQSOCKET064SEN*2
	64-pin LQFP (10x10)		<a href="#">QB-64GB-EA-08T*1</a>	<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>		<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2
	64-pin LQFP (12x12)		<a href="#">QB-64GK-EA-06T*1</a>	<a href="#">QB-64GK-YQ-01T</a>	<a href="#">QB-64GK-NQ-01T</a>		<a href="#">QB-64GK-HQ-01T</a>	<a href="#">QB-64GK-YS-01T*1</a> YQSOCKET064SBN*2
78K0R/KF3	80-pin LQFP (14x14)		<a href="#">QB-80GC-EA-06T*1</a>	<a href="#">QB-80GC-YQ-01T</a>	<a href="#">QB-80GC-NQ-01T</a>		<a href="#">QB-80GC-HQ-01T</a>	<a href="#">QB-80GC-YS-01T*1</a> YQSOCKET080SBN*2
	80-pin LQFP (12x12)		<a href="#">QB-80GK-EA-06T*1</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>		<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2
78K0R/KG3	100-pin LQFP (14x14)		<a href="#">QB-100GC-EA-01T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
	100-pin LQFP (14x20)		<a href="#">QB-100GF-EA-04T*1</a>	<a href="#">QB-100GF-YQ-01T*1</a>	<a href="#">QB-100GF-NQ-01T*1</a>		<a href="#">QB-100GF-HQ-03T*1</a>	<a href="#">QB-100GF-YS-01T*1</a> YQSOCKET100RBN*2
78K0R/KH3	128-pin LQFP (14x20)		<a href="#">QB-128GF-EA-01T*1</a>	<a href="#">QB-128GF-YQ-01T*1</a>	<a href="#">QB-128GF-NQ-01T*1</a>		<a href="#">QB-128GF-HQ-01T*1</a>	<a href="#">QB-128GF-YS-01T*1</a> YQSOCKET128RDN*2
78K0R/KJ3	144-pin LQFP (20x20)	<a href="#">QB-144GJ-EA-05T*1</a>	<a href="#">QB-144GJ-YQ-01T</a>	<a href="#">QB-144GJ-NQ-01T</a>	<a href="#">QB-144GJ-HQ-01T</a>	<a href="#">QB-144GJ-YS-01T*1</a> YQSOCKET144SDN*2		
78K0R/KC3-L	44-pin LQFP (10x10)	QB-78K0RIX3-ZZZ*1	<a href="#">QB-44GB-EA-04T*1</a>	<a href="#">QB-44GB-YQ-01T</a>	<a href="#">QB-44GB-NQ-01T</a>	QB-80-EP-01T	<a href="#">QB-44GB-HQ-01T</a>	<a href="#">QB-44GB-YS-01T*1</a> YQSOCKET044SAN*2
	48-pin TQFP (7x7)		<a href="#">QB-48GA-EA-04T*1</a>	<a href="#">QB-48GA-YQ-01T</a>	<a href="#">QB-48GA-NQ-01T</a>		<a href="#">QB-48GA-HQ-01T</a>	<a href="#">QB-48GA-YS-01T*1</a> YQSOCKET048SDN*2
78K0R/KD3-L	52-pin LQFP (10x10)		<a href="#">QB-52GB-EA-04T*1</a>	<a href="#">QB-52GB-YQ-01T*1</a>	<a href="#">QB-52GB-NQ-01T*1</a>		<a href="#">QB-52GB-HQ-01T*1</a>	<a href="#">QB-52GB-YS-01T*1</a> YQSOCKET052SBN*2
78K0R/KE3-L	64-pin FBGA (5x5)		<a href="#">QB-64F1-EA-02T*1</a>	-	<a href="#">QB-64FC-NQ-01T*1</a>		-	-
	64-pin FBGA (4x4)		<a href="#">QB-64F1-EA-05T*1</a>	-	<a href="#">QB-64F1-NQ-01T</a>		-	-
	64-pin TQFP (7x7)		<a href="#">QB-64GA-EA-01T*1</a>	<a href="#">QB-64GA-YQ-01T</a>	<a href="#">QB-64GA-NQ-01T*1</a>		<a href="#">QB-64GA-HQ-01T*1</a>	<a href="#">QB-64GA-YS-01T*1</a> YQSOCKET064SEN*2
	64-pin LQFP (10x10)		<a href="#">QB-64GB-EA-04T</a>	<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>		<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2
64-pin LQFP (12x12)	<a href="#">QB-64GK-EA-04T</a>		<a href="#">QB-64GK-YQ-01T</a>	<a href="#">QB-64GK-NQ-01T</a>	<a href="#">QB-64GK-HQ-01T</a>		<a href="#">QB-64GK-YS-01T*1</a> YQSOCKET064SBN*2	
78K0R/IB3	30-pin SSOP (7.62mm(300))		<a href="#">QB-30MC-EA-05T*1</a>	<a href="#">QB-30MC-YQ-01T*1</a>	<a href="#">QB-30MC-NQ-01T*1</a>		<a href="#">QB-30MC-HQ-01T*1</a>	<a href="#">QB-30MC-YS-01T*1</a> YSSOCKET30BKN*2
78K0R/IC3	38-pin SSOP (7.62mm(300))		<a href="#">QB-38MC-EA-03T*1</a>	<a href="#">QB-38MC-YQ-01T*1</a>	<a href="#">QB-38MC-NQ-01T*1</a>		<a href="#">QB-38MC-HQ-01T*1</a>	<a href="#">QB-38MC-YS-01T*1</a> YSSOCKET38BKN*2
	44-pin LQFP (10x10)	<a href="#">QB-44GB-EA-04T*1</a>	<a href="#">QB-44GB-YQ-01T</a>	<a href="#">QB-44GB-NQ-01T</a>	<a href="#">QB-44GB-HQ-01T</a>	<a href="#">QB-44GB-YS-01T*1</a> YQSOCKET044SAN*2		
	48-pin TQFP (7x7)	<a href="#">QB-48GA-EA-04T*1</a>	<a href="#">QB-48GA-YQ-01T</a>	<a href="#">QB-48GA-NQ-01T</a>	<a href="#">QB-48GA-HQ-01T</a>	<a href="#">QB-48GA-YS-01T*1</a> YQSOCKET048SDN*2		
78K0R/ID3	52-pin LQFP (10x10)	<a href="#">QB-52GB-EA-04T*1</a>	<a href="#">QB-52GB-YQ-01T*1</a>	<a href="#">QB-52GB-NQ-01T*1</a>	<a href="#">QB-52GB-HQ-01T*1</a>	<a href="#">QB-52GB-YS-01T*1</a> YQSOCKET052SBN*2		
78K0R/IE3	64-pin LQFP (10x10)	<a href="#">QB-64GB-EA-04T</a>	<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>	<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2		
	64-pin LQFP (12x12)	<a href="#">QB-64GK-EA-04T</a>	<a href="#">QB-64GK-YQ-01T</a>	<a href="#">QB-64GK-NQ-01T</a>	<a href="#">QB-64GK-HQ-01T</a>	<a href="#">QB-64GK-YS-01T*1</a> YQSOCKET064SBN*2		

\*1 Discontinued product

\*2 Buy the product : manufactured by Tokyo Eletech Corporation

## Optional product list of IECUBE for 78K0R

We ended sales of the IECUBE set (main unit, socket, and other items) at the end of May 2015.

If you wish to purchase the product, please separately purchase the main IECUBE unit (QB-xxxxxxx-ZZZ), socket, and other required items.

Each link on product number is set with the URL for User's manual document.

Click here for information about [\[Power-supply adapter QB-COMMON-PW-xx\]](#) (optional).

MCU	Package	IECUBE main unit	Socket Set				Option	
			Exchange Adapter	YQ Connector	Target Connector	Emulation Probe	Mount Adapter	Space Adapter
78K0R/KF3-L (ROM:128K or less)	80-pin LQFP (14x14)	QB-78K0RKX3C-ZZZ*1	<a href="#">QB-80GC-EA-10T*1</a>	<a href="#">QB-80GC-YQ-01T</a>	<a href="#">QB-80GC-NQ-01T</a>		<a href="#">QB-80GC-HQ-01T</a>	<a href="#">QB-80GC-YS-01T*1</a> YQSOCKET080SDN*2
	80-pin LQFP (12x12)		<a href="#">QB-80GK-EA-09T*1</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>		<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2
78K0R/KG3-L (ROM:128K or less)	100-pin LQFP (14x14)	QB-78K0RKX3C-ZZZ*1	<a href="#">QB-100GC-EA-07T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
	100-pin LQFP (14x20)		<a href="#">QB-100GF-EA-05T*1</a>	<a href="#">QB-100GF-YQ-01T*1</a>	<a href="#">QB-100GF-NQ-01T*1</a>		<a href="#">QB-100GF-HQ-03T*1</a>	<a href="#">QB-100GF-YS-01T*1</a> YQSOCKET100RBN*2
	100-pin FBGA (6x6)		<a href="#">QB-100F1-EA-01T*1</a>	-	<a href="#">QB-100F1-NQ-01T*1</a>		<a href="#">QB-144-EP-02S</a>	-
78K0R/KF3-L (ROM:192K or more)	80-pin LQFP (14x14)	QB-78F1030-ZZZ*1	<a href="#">QB-80GC-EA-10T*1</a>	<a href="#">QB-80GC-YQ-01T</a>	<a href="#">QB-80GC-NQ-01T</a>		<a href="#">QB-80GC-HQ-01T</a>	<a href="#">QB-80GC-YS-01T*1</a> YQSOCKET080SDN*2
	80-pin LQFP (12x12)		<a href="#">QB-80GK-EA-09T*1</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>		<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2
78K0R/KG3-L (ROM:192K or more)	100-pin LQFP (14x20)	QB-78F1030-ZZZ*1	<a href="#">QB-100GF-EA-05T*1</a>	<a href="#">QB-100GF-YQ-01T*1</a>	<a href="#">QB-100GF-NQ-01T*1</a>		<a href="#">QB-100GF-HQ-03T*1</a>	<a href="#">QB-100GF-YS-01T*1</a> YQSOCKET100RBN*2
	100-pin LQFP (14x14)		<a href="#">QB-100GC-EA-07T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
78K0R/KF3-C	80-pin LQFP (12x12)	QB-78K0RKX3C-ZZZ*1	<a href="#">QB-80GK-EA-09T*1</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>	<a href="#">QB-144-EP-02S</a>	<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2
78K0R/KG3-C	100-pin LQFP (14x14)		<a href="#">QB-100GC-EA-07T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
uPD78F8043	56-pin WQFN (8x8)	QB-78K0RKX3C-ZZZ*1	<a href="#">QB-78F8043-EA-01T*1</a>	-	<a href="#">QB-56K8-NQ-01T*1</a>	<a href="#">QB-144-EP-02S</a>	-	-
78K0R/LF3	80-pin LQFP (14x14)	QB-78K0RLX3-ZZZ*1	<a href="#">QB-80GC-EA-09T*1</a>	<a href="#">QB-80GC-YQ-01T</a>	<a href="#">QB-80GC-NQ-01T</a>	<a href="#">QB-144-EP-02S</a>	<a href="#">QB-80GC-HQ-01T</a>	<a href="#">QB-80GC-YS-01T*1</a> YQSOCKET080SDN*2
	80-pin LQFP (12x12)		<a href="#">QB-80GK-EA-08T*1</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>		<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2
78K0R/LG3	100-pin LQFP (14x14)	QB-78K0RLX3-ZZZ*1	<a href="#">QB-100GC-EA-08T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
78K0R/LH3	128-pin LQFP (14x20)	QB-78K0RLX3-ZZZ*1	<a href="#">QB-128GF-EA-01T*1</a>	<a href="#">QB-128GF-YQ-01T*1</a>	<a href="#">QB-128GF-NQ-01T*1</a>		<a href="#">QB-128GF-HQ-01T*1</a>	<a href="#">QB-128GF-YS-01T*1</a> YQSOCKET128RDN*2
78K0R/KE3-A	64-pin FBGA (6x6)	QB-78K0RLX3-ZZZ*1	<a href="#">QB-64F1-EA-06T*1</a>	-	<a href="#">QB-64F1-NQ-02T*1</a>	<a href="#">QB-144-EP-02S</a>	-	-
78K0R/LG3-M	100-pin LQFP (14x14)	QB-78K0RLX3-ZZZ*1	<a href="#">QB-78F8070-EA-01T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>	<a href="#">QB-144-EP-02S</a>	<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
78K0R/KC3-L (USB)	48-pin TQFP (7x7)	QB-78F1026-ZZZ*1	<a href="#">QB-48GA-EA-05T*1</a>	<a href="#">QB-48GA-YQ-01T</a>	<a href="#">QB-48GA-NQ-01T</a>		<a href="#">QB-48GA-HQ-01T</a>	<a href="#">QB-48GA-YS-01T*1</a> YQSOCKET048SDN*2
	48-pin WQFN (7x7)		<a href="#">QB-48K8-EA-01T*1</a>	-	<a href="#">QB-48K8-NQ-01T*1</a>		-	-
78K0R/KE3-L (USB)	64-pin LQFP (10x10)	QB-78F1026-ZZZ*1	<a href="#">QB-64GB-EA-11T*1</a>	<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>	<a href="#">QB-80-EP-01T</a>	<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2
	64-pin TQFP (7x7)		<a href="#">QB-64GA-EA-05T*1</a>	<a href="#">QB-64GA-YQ-01T</a>	<a href="#">QB-64GA-NQ-01T*1</a>		<a href="#">QB-64GA-HQ-01T*1</a>	<a href="#">QB-64GA-YS-01T*1</a> YQSOCKET064SEN*2
	64-pin FBGA (5x5)		<a href="#">QB-64F1-EA-07T*1</a>	-	<a href="#">QB-64F1-NQ-01T</a>		-	-

\*1 Discontinued product

\*2 Buy the product : manufactured by Tokyo Eletech Corporation

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			Exchange Adapter	YQ Connector	Target Connector	Emulation Probe	Mount Adapter	Space Adapter	
78K0R/FB3	30-pin SSOP (7.62mm(300))	QB-78K0RFX3-ZZZ*1	<a href="#">QB-30MC-EA-06T*1</a>	<a href="#">QB-30MC-YQ-01T*1</a>	<a href="#">QB-30MC-NQ-01T*1</a>	QB-80-EP-01T	<a href="#">QB-30MC-HQ-01T*1</a>	<a href="#">QB-30MC-YS-01T*1</a> YSSOCKET30BKN*2	
	32-pin WQFN (5x5)		<a href="#">QB-32K8-EA-01T*1</a>	-	<a href="#">QB-32K8-NQ-02T*1</a>		-	-	
78K0R/FC3	40-pin WQFN (6x6)		<a href="#">QB-40K8-EA-01T*1</a>	-	<a href="#">QB-40K8-NQ-01T*1</a>		-	-	
	48-pin WQFN (7x7)		<a href="#">QB-48K8-EA-01T</a>	-	<a href="#">QB-48K8-NQ-01T*1</a>		-	-	
	48-pin TQFP (7x7)		<a href="#">QB-48GA-EA-05T*1</a>	<a href="#">QB-48GA-YQ-01T</a>	<a href="#">QB-48GA-NQ-01T</a>		<a href="#">QB-48GA-HQ-01T</a>	<a href="#">QB-48GA-YS-01T*1</a> YQSOCKET048SDN*2	
78K0R/FE3	64-pin LQFP (10x10)		<a href="#">QB-64GB-EA-09T</a>	<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>		<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2	
78K0R/FF3	80-pin LQFP (12x12)		<a href="#">QB-80GK-EA-10T</a>	<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>		<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2	
78K0R/FG3	100-pin LQFP (14x14)		<a href="#">QB-100GC-EA-09T*1</a>	<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>		<a href="#">QB-144-EP-02S</a>	<a href="#">QB-100GC-HQ-01T</a>	<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2
uPD78F8069	64-pin WQFN (9x9)		QB-78K0RFX3-ZZZ*1	<a href="#">QB-78F8069-EA-01T*1</a>	-		<a href="#">QB-64K8-NQ-01T*1</a>	<a href="#">QB-144-EP-02S</a>	-
78K0R/HC3	48-pin TQFP (7x7)		QB-78K0RFX3-ZZZ*1	<a href="#">QB-48GA-EA-05T*1</a>	<a href="#">QB-48GA-YQ-01T</a>		<a href="#">QB-48GA-NQ-01T</a>	QB-80-EP-01T	<a href="#">QB-48GA-HQ-01T</a>
78K0R/HE3	64-pin LQFP (10x10)	<a href="#">QB-64GB-EA-09T</a>		<a href="#">QB-64GB-YQ-01T</a>	<a href="#">QB-64GB-NQ-01T</a>	<a href="#">QB-64GB-HQ-01T</a>	<a href="#">QB-64GB-YS-01T*1</a> YQSOCKET064SDN*2		
78K0R/HF3	80-pin LQFP (12x12)	<a href="#">QB-80GK-EA-10T</a>		<a href="#">QB-80GK-YQ-01T</a>	<a href="#">QB-80GK-NQ-01T</a>	<a href="#">QB-80GK-HQ-01T</a>	<a href="#">QB-80GK-YS-01T*1</a> YQSOCKET080SDN*2		
78K0R/HG3	100-pin LQFP (14x14)	<a href="#">QB-100GC-EA-09T*1</a>		<a href="#">QB-100GC-YQ-01T</a>	<a href="#">QB-100GC-NQ-01T</a>	<a href="#">QB-144-EP-02S</a>	<a href="#">QB-100GC-HQ-01T</a>		<a href="#">QB-100GC-YS-01T*1</a> YQSOCKET100SDN*2

\*1 Discontinued product

\*2 Buy the product : manufactured by Tokyo Eletech Corporation