

# Development Tool Product List (4-bit)

## ■ KLCS-47E

Target MCU			Language Tools		Test Tools(RTE System)			Accessories					Notes
Product Name	OTP	Package	Assembler	C-Like Compiler (#1)	Debugger	Controller	Emulation Pod/Emulator	MCU Probe (#3,#4)	Shape-Conversion Adapter(#3,#4)	QFP Adapter (#3,#4)	OTP/MCU Mount Adapter	OTP Write Adapter	
KMP47C101M	-	SOP16	SW471E0-ZZE [MS-DOS version]	SW476E0-ZZE [MS-DOS version]	SW477E0-ZZE [Source level debugger] [MS-DOS version] SW473E0-ZZE [Symbolic debugger] [MS-DOS version]	BM1020A [RTE]	BM4721A	(PN100002+PN200001)	BM1160+AS-DIP.3-016-S002-L(#5)	-	-	-	
KMP47C101P	KMP47P201VP	DIP16					BM1187						
KMP47C102M	KMP47P202VM	SOP20					BM1113						
KMP47C102P	KMP47P202VP	DIP20					BM1187						
KMP47C103M	KMP47P403VM	SOP28					BM1141						
KMP47C103N	KMP47P403VN	SDIP28					BM1140						
KMP47C201M	-	SOP16					-						
KMP47C201P	KMP47P201VP	DIP16					BM1187						
KMP47C202M	KMP47P202VM	SOP20					BM1113						
KMP47C202P	KMP47P202VP	DIP20					BM1187						
KMP47C203M	KMP47P403VM	SOP28			BM1141								
KMP47C203N	KMP47P403VN	SDIP28			BM1140								
**KMP47C206M	KMP47P206VM	SOP20			BM1126								
**KMP47C206P	KMP47P206VP	DIP20			BM1125								
KMP47C222F	KMP47P422VF	QFP44			(IC149-044-039-S5(#6))	BM1103	①						
KMP47C222N	KMP47P422VN	SDIP42			BM1102								
KMP47C241M	KMP47P241VM	SOP28			BM1157								
KMP47C241N	KMP47P241VN	SDIP28			BM1156								
KMP47C243DM	KMP47P443VDM	SSOP30			BM1115	②							
**KMP47C243M	KMP47P443VM	SOP28			BM1101								
**KMP47C243N	KMP47P443VN	SDIP28			BM1100								
KMP47C422F	KMP47P442VF	QFP44			(IC149-044-039-S5(#6))	BM1103	①						
KMP47C422N	KMP47P442VN	SDIP42			BM1102								
KMP47C443DM	KMP47P443VDM	SSOP30			BM1115	②							
KMP47C443M	KMP47P443VM	SOP28			BM1101								
KMP47C443N	KMP47P443VN	SDIP28			BM1100								
KMP47E186M	KMP47P186M	SOP16			-	BM1114							
KMP47E187M	KMP47P187M	SOP16			-	BM1114							
+ **KMP47E486M	KMP47W486M	SOP28			-	**B1133							
+ **KMP47E487M	KMP47W487M	SOP28			-	**B1133							

## ■ KLCS-47

Target MCU			Language Tools		Test Tools(RTE System)			Accessories					Notes
Product Name	OTP	Package	Assembler	C-Like Compiler (#1)	Debugger	Controller	Emulation Pod	MCU Probe (#3,#4)	Shape-Conversion Adapter (#3,#4)	QFP Adapter (#3,#4)	OTP/MCU Mount Adapter	OTP Write Adapter	
KMP47C200BF	KMP47P400VF	QFP44	SW471E0-ZZE [MS-DOS version]	SW476E0-ZZE [MS-DOS version]	SW477E0-ZZE [Source level debugger] [MS-DOS version] SW473E0-ZZE [Symbolic debugger] [MS-DOS version]	BM1020A [RTE]	BM4721A	(PN100002+PN200001)	AS-SDIP-QF52S-47C800F(#5)	-	-	BM1125	
KMP47C200BN	KMP47P400VN	SDIP42					BM1118						
KMP47C210AF	KMP47P410AF	QFP44					BM1125						
KMP47C210AN	KMP47P410AN	SDIP42					BM1118						
KMP47C212AN	-	-					-						
KMP47C221ADF	KMP47P421ADF	QFP64					BM1144	②					
KMP47C242BN	KMP47P242VN	SDIP30					BM1124						
KMP47C400BF	KMP47P400VF	QFP44					BM1125						
KMP47C400BN	KMP47P400VN	SDIP42					BM1118						
KMP47C407AF	KMP47P407VF	QFP44					BM1121						
KMP47C407AN	KMP47P407VN	SDIP42			BM1120								
KMP47C410AF	KMP47P410AF	QFP44			BM1125								
KMP47C410AN	KMP47P410AN	SDIP42			BM1118								
KMP47C412AN	-	-			-								
KMP47C421ADF	KMP47P421ADF	QFP64			BM1144	②							
KMP47C423ADF	-	-			-								
KMP47C440BF	KMP47P440AF	QFP44			BM1125								
KMP47C440BN	KMP47P440AN	SDIP42			BM1118								
KMP47C441AF	KMP47P441AF	QFP44			BM1125								
KMP47C441AN	KMP47P441AN	SDIP42			BM1118								
KMP47C446ADF	KMP47P446VDF	QFP64			BM1127A								
KMP47C451BN	KMP47P451VN	SDIP30			BM1119								
KMP47C452BF	KMP47P452VF	QFP44			BM1121								
KMP47C452BN	KMP47P452VN	SDIP42			BM1120								
KMP47C453AF	KMP47P453VF	QFP44			BM1121								
KMP47C453AN	KMP47P453VN	SDIP42			BM1120								
KMP47C454AN	KMP47P454VN	SDIP30			BM1119								
KMP47C456ADF	-	QFP80			-								

\*\*: Under Development  
 ★: Samples available  
 +: This product is covered by the BULL CP8 proprietary patent, US patent No. 4,382,279.  
 #1: Compiler includes assembler system  
 #2: The seventh letter of the product name for the real-time OS is either 0, 1, 2, A or C.  
 0: Object code - 1copy  
 1: Object code - 1000copies  
 2: Object code can be freely copied.  
 A: Source code - 1 copy; object code - 1 copy  
 C: Source code - 1 copy; object code can be freely copied.

#3: The product name in ( ) is a spare part and is available separately. There is one of each emulation pod and emulator.  
 #4: MCU probes and shape-conversion adapters whose product numbers start with PN12 include a QFP adapter.  
 #5: Emulation Technology (ET) product supplied by Micron(contact:+81-33317-9911)  
 #6: Supplied by Yamaichi Denki. (contact: +81-33778-6122)

\*1: SW477E0-ZZE[Source level debugger][MS-DOS version]  
 SW473E0-ZZE[Symbolic debugger][MS-DOS version]  
 \*2: SW447E1-ZZE[Source level debugger][MS-DOS version]  
 SW473E1-ZZE[Symbolic debugger][MS-DOS version]  
 ①: PN120019 includes an OPT/MCU mount adapter (IC149-044-39-S5)  
 ②: The tip of MCU probe cannot be connected directly to the foot pattern of target MCU.

• System names and product names listed are generally registered trademarks of their respective manufacturers.  
 • Software is always supplied in the latest version.  
 • Before purchasing, please confirm the type number, product name etc. with Toshiba or its distributor.

MS-DOS version  
 • This version operates on an IBM PC or compatible that has MS-DOS installed. It also operates on a MS-Windows DOS-compatible box.  
 • Assemblers and compilers whose product name has A,C or L as the sixth character require an I386 CPU or higher processor and 4MB or more of memory.  
 • The symbolic and source level debuggers require the I286 CPU or higher processor and 2MB or more of EMS memory.  
 MS-Windows version  
 • Versions whose product name has W as the sixth character will run on an IBM PC or compatible that has MS-Windows 3.1 installed. They will also run number MS-Windows 95.  
 • Versions whose product name has N as the sixth character will run on an IBM PC or compatible that has MS-Windows NT or MS-Windows 95 installed.  
 UNIX version  
 • Products whose product name has S as the sixth character will run on a Sun OS system.  
 • Products whose product name has I as the sixth character will run on a Solaris 2.4 system.