

7 Series Spartan, Artix and Kintex modules

										TE	0712	-	03	-	8	2	I	3	6	-	A	S											
										1 2 (3)	3456	7	8 9	10	11	12	13	14	15	16	17	18											
Module type																																	
TE	BB Mezzanine Module																																
TEF	Carrier card/FMC Module																																
Module name																																	
	0710	0711	0712	0713	0714	0717	0725	0725LP**	0741																								
	0890	1001	0763																														
Module Revision																																	
01	Revision 1 (initial)																																
Device name																																	
1	2	3	4	5	6	7	8	Artix																									
A12	A15	A25	A35	A50	A75	A100	A200																										
A	B	D	F	G	H	K	Kintex																										
K70	K160	K325	K355	K410	K420	K480																											
M	N	P	R	S	T	Spartan 7																											
S6	S15	S25	S50	S75	S100																												
Speed grade																																	
1	2	3	4	5																													
1	2	3	1L	2L																													
FPGA Temperature range (Tstg abs = -65..150°C)																																	
C				E				I																Q									
Commercial (Tj = 0..85°C)				Extended (Tj = 0..100°C)				Industrial (Tj = -40..100°C)																Automotive (Tj = -40..125°C)									
DDR memory																																	
-	Not present																																
0	Not populated																																
1	TE0712: 1GByte							Industrial			2 x 4GBit - IM4G16D3FABG-125I (Obsolete)						#27202																
2	TE0710: 512MByte							Industrial			1 x 4GBit - IS43TR85120BL-125KBLI (BGA78)						#30454																
3	TE0712: 1GByte							Industrial			2 x 4Gbit - IS43TR16256BL-125KBLI						#29494																
4	TE0713: 1GByte																																
5	TE0763: 128 MByte							Industrial			1 x 1GBit - NT5CC64M16GP-DII						#27039																
6	TExxxx: 64 MByte							Commercial			1 x 512Mbit - IS42S16320F-6BL						#32603																
X	DDR SODIMM Socket																																
Flash memory																																	
0	Not populated																																
1	TE0710/TE0711/TE0725/TE0725LP/TE0741: 32MByte							Industrial			256Mbit - S25FL256SAGBHI20						#25945																
2	TE0714: 16MByte							Ext. Industrial			128Mbit - IS25LP128F-JBLE (SO8)						#29438																
3	TE0712: 32MByte							Industrial			256Mbit - MT25QL256ABA8E12-1SIT						#28856																
4	TEC0176/TEF1001: 32MByte							Industrial			256Mbit - MT25QU256ABA8ESF-0SIT (SO16)						#27933																
5	TE0717/TE0890: 8MByte							Ext. Industrial			64Mbit - IS25LP064D-JBLE (SO8W)						#30166																
6	TE0712/TE0713: 32MByte							Industrial			256Mbit - S25FL256SAGBHI20						#25945																
7	TE0714: 16MByte							Automotive			128Mbit - S25FL127SABMFV10						#26078																
8	TE0714: 16MByte							Industrial			128Mbit - MT25QU128ABA1ESE-0SIT						#28029																
9	TExxxx: 64 MByte							Industrial			512Mbit - S25FL512SAGBHS10						#31209																
A	TE0725LP: 64 MByte							Industrial			512Mbit - MT25QU512ABB8E12-0SIT (1.8V)						#29292																
eMMC Field not present in TE0725LP																																	
-	Not present																																
0	Not populated																																
F																																	
Other options (Connectors, custom options)																																	
A	Standard height																																
L	Low profile																																

...	Custom variation, look additional info
Additional options. Not available in TE0725LP	
blank	no extra options
S	Starter Kit
K	Heat spreader

** TE0725LP is exception. Positions after LP shifted right on two positions. Therefore positions 16 (eMMC) and 18 (Reserve) excluded

Other assembly variations (position 17)

Module	Variation	Description
TE0712	A	Standard profile B2B connectors LSHM-150-04.0-L-DV-A-S-K-TR #23838/LSHM-130-04.0-L-DV-A-S-K-TR #24903
	C	Standard profile B2B connectors, custom clock generator #26615
	L	Low profile B2B connectors LSHM-150-02.5-L-DV-A-S-K-TR #23836/LSHM-130-02.5-L-DV-A-S-K-TR #26125, without screws and distance bolts
	M	Standard profile B2B connectors, Ethernet PHY not populated.
	P	Standard profile B2B connectors, B2B connector JM3 not populated.
	X	Standard profile B2B connectors, Non-RoHS solder paste and X-Ray inspection IPC Class 2
TE0714	A	Standard profile LSHM-150-04.0-L-DV-A-S-K-TR / VCCIO_0 = 1.8 V - No Input/Output
	B	Standard profile LSHM-150-04.0-L-DV-A-S-K-TR / VCCIO_0 = 3.3 V - Output
	C	Standard profile LSHM-150-04.0-L-DV-A-S-K-TR / VCCIO_0 = 3.3 V - No Input/Output
	L	Low profile LSHM-150-02.5-L-DV-A-S-K-TR / VCCIO_0 = 3.3 V - Output
	D	Standard profile, U7 (SPI-FLASH) IS25LP128F-JBLE, U2 (MGT CLOCK) DSC1123CI2-156.2500, R21-R22 not fitted, R27 fitted (VCCIO supply from carrier board)
TE0725	F	Optical transceiver AFBR-59F2Z (26735) - fitted
	H	HyperRAM IS66WVH8M8DBLL-100B1LI (32384) - not populated
	B	Passive components are not populated around the U8 optical transceiver: C12, C35, C37-C41; L3, L4; R12, R17, R21, R22, R25, R29 - R34
TE0725LP	T	1.8V variant, connectors soldered (old variant D)
	U	1.8V variant, connectors not mounted (old variant L)
	H	3.3V variant, HyperFlash S26KS512SDPBHI020 #28925, connectors not mounted
TEC0089	D	Standard assembly, Wireless module RS9113 not populated
TEF1001	F	Standard assembly, FPGA - FFG676 package, no FPGA heatsink
	C	Standard assembly, FPGA heatsink ATS-FPS058061006-39-C2-R0 (5.84mm)
	D	Standard assembly, FPGA heatsink ATS-FPS058061006-39-C2-R0 (5.84mm), no FMC FAN F455B-05
	K	Standard assembly, FPGA heatsink ATS-FPS058061011-40-C2-R0 (11.43mm)
TE0763	B	

Other (assembly) variations (position 18)

Module	Variation	Description
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TE0712	W	Standard profile B2B connectors, without screws and distance bolts
TE0712	C	Coatet, Programmed, Sticker
TE0741	F	FPGA - FFG676 package