

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 - S25FL512SAGBHI510							#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
--------	-----------	-------------

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