



# UWTR v2.03.02 support body list

## 1 Support body (sort by Body):

(The Red line is update for v2.03.02)

IC body	Supporting Devices	Package Type	Package	UWTR ADPNum	UWTR SMD socket number	Textool Part number
EM78F541N	EM78F541NAD16	DIP16	300mil	UWTR-ADP037		
	EM78F541NASO16A	SOP16	150mil	UWTR-ADP037	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78F541NMS10	MSOP10	118mil	UWTR-ADP024-A	UWTR-MS10-118	656-0102211
EM78F542N	EM78F542ND18	DIP18	300mil	UWTR-ADP037		
	EM78F542ND20	DIP20	300mil	UWTR-ADP037		
	EM78F542NSO18	SOP18	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F542NSO20	SOP20	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F542NSS20	SSOP20	209mil	UWTR-ADP037	UWTR-SS24/20-209	IC51-0242-913
EM78F544N	EM78F544NK24J/S	SKDIP24	300mil	UWTR-ADP037		
	EM78F544NK28J/S	SKDIP28	300mil	UWTR-ADP037		
	EM78F544NSO24J/S	SOP24	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78F544NSO28J/S	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F548N	EM78F548ND40	DIP40	600mil	UWTR-ADP025		
	EM78F548NK28	SKDIP28	300mil	UWTR-ADP037		
	EM78F548NQ44	QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	IC51-0444-798
	EM78F548NSO28	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F561N	EM78F561NAD16	DIP16	300mil	UWTR-ADP037		
	EM78F561NASO16A	SOP16	150mil	UWTR-ADP037	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78F561NMS10	MSOP10	118mil	UWTR-ADP024-A	UWTR-MS10-118	656-0102211
EM78F562N	EM78F562ND16	DIP16	300mil	UWTR-ADP047		
	EM78F562ND18	DIP18	300mil	UWTR-ADP037		
	EM78F562ND20	DIP20	300mil	UWTR-ADP037		
	EM78F562NSO16	SOP16	300mil	UWTR-ADP047	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F562NSO18	SOP18	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F562NSO20	SOP20	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
EM78F564N	EM78F564NK24J/S	SKDIP24	300mil	UWTR-ADP037		
	EM78F564NK28J/S	SKDIP28	300mil	UWTR-ADP037		
	EM78F564NQN32	QFN32	5x5	UWTR-ADP054-A	UWTR-QFN32-5x5	QFN11T032-003
	EM78F564NSO24J/S	SOP24	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78F564NSO28J/S	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04



EM78F568N	EM78F568ND40	DIP40	600mil	UWTR-ADP025		
	EM78F568NK28	SKDIP28	300mil	UWTR-ADP037		
	EM78F568NQ44	QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	IC51-0444-798
		QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	FPG-44-0.8-17
EM78F568NSO28	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04	
EM78F641N	EM78F641NAD16	DIP16	300mil	UWTR-ADP037		
	EM78F641NASO16A	SOP16	150mil	UWTR-ADP037	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78F641NMS10	MSOP10	118mil	UWTR-ADP024-A	UWTR-MS10-118	656-0102211
EM78F642N	EM78F642ND18	DIP18	300mil	UWTR-ADP037		
	EM78F642ND20	DIP20	300mil	UWTR-ADP037		
	EM78F642NSO18	SOP18	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F642NSO20	SOP20	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F642NSS20	SSOP20	209mil	UWTR-ADP037	UWTR-SS24/20-209	IC51-0242-913
EM78F644N	EM78F644NK24J/S	SKDIP24	300mil	UWTR-ADP037		
	EM78F644NK28J/S	SKDIP28	300mil	UWTR-ADP037		
	EM78F644NSO24J/S	SOP24	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78F644NSO28J/S	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F648N	EM78F648ND40	DIP40	600mil	UWTR-ADP025		
	EM78F648NK28	SKDIP28	300mil	UWTR-ADP037		
	EM78F648NQ44	QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	IC51-0444-798
		QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	FPG-44-0.8-17
EM78F648NSO28	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04	
EM78F651N	EM78F651ND14J/S	DIP14	300mil	UWTR-ADP036		
	EM78F651ND16J/S	DIP16	300mil	UWTR-ADP036		
	EM78F651ND18J/S	DIP18	300mil	UWTR-ADP036		
	EM78F651ND20J/S	DIP20	300mil	UWTR-ADP036		
	EM78F651NSO14J/S	SOP14	150mil	UWTR-ADP036	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78F651NSO16AJ/S	SOP16	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F651NSO18J/S	SOP18	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F651NSO20J/S	SOP20	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F651NSS10J/S	SSOP10	150mil	UWTR-ADP036-A	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
	EM78F651NSS20J/S	SSOP20	209mil	UWTR-ADP036	UWTR-SS24/20-209	IC51-0242-913
EM78F652N	EM78F652ND16	DIP16	300mil	UWTR-ADP046		
	EM78F652ND16J/S	DIP16	300mil	UWTR-ADP046		
	EM78F652ND18	DIP18	300mil	UWTR-ADP036		
	EM78F652ND20	DIP20	300mil	UWTR-ADP036		
	EM78F652NSO16	SOP16	300mil	UWTR-ADP046	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F652NSO16J/S	SOP16	300mil	UWTR-ADP046	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F652NSO18	SOP18	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04



**UWTR EM78 series USB writer**

	EM78F652NSO20	SOP20	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
EM78F661N	EM78F661NAD16	DIP16	300mil	UWTR-ADP037		
	EM78F661NASO16A	SOP16	150mil	UWTR-ADP037	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78F661NMS10	MSOP10	118mil	UWTR-ADP024-A	UWTR-MS10-118	656-0102211
EM78F662N	EM78F662ND16	DIP16	300mil	UWTR-ADP047		
	EM78F662ND18	DIP18	300mil	UWTR-ADP037		
	EM78F662ND20	DIP20	300mil	UWTR-ADP037		
	EM78F662NSO16	SOP16	300mil	UWTR-ADP047	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F662NSO18	SOP18	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F662NSO20	SOP20	300mil	UWTR-ADP037	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F662NQ16A	QFN16A	4x4	UWTR-ADP087	UWTR-QFN16-4x4	QFN-16-0.65-4*4
	QFN16A	4x4	UWTR-ADP087	UWTR-QFN16-4x4	QFN-16BT-0.65-01	
EM78F664N	EM78F664NK24J/S	SKDIP24	300mil	UWTR-ADP037		
	EM78F664NK28J/S	SKDIP28	300mil	UWTR-ADP037		
	EM78F664NQ32	QFN32	5x5	UWTR-ADP054-A	UWTR-QFN32-5x5	QFN11T032-003
	EM78F664NSO24J/S	SOP24	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78F664NSO28J/S	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F665N	EM78F665NK28	SKDIP28	400mil	UWTR-ADP037	UWTR-SKDIP-400/600	232-1291-00
	EM78F665NQ32	QFN32	5*5	UWTR-ADP080	UWTR-QFN32-5x5	QFN11T032-003
	EM78F665NSO28	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F668N	EM78F668ND40	DIP40	600mil	UWTR-ADP025		
	EM78F668NK28	SKDIP28	300mil	UWTR-ADP037		
	EM78F668NQ32	QFN32	5x5	UWTR-ADP080	UWTR-QFN32-5x5	QFN11T032-003
	EM78F668NQ44	QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	IC51-0444-798
		QFP44	10x10	UWTR-ADP050-A	UWTR-QFP44-10x10	FPG-44-0.8-17
	EM78F668NSO28	SOP28	300mil	UWTR-ADP037	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78F668NSO20	SOP20	300mil	UWTR-ADP096	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04	
EM78F672N	EM78F672NAM	SOP20	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F672NAP	DIP20	300mil	UWTR-ADP036		
	EM78F672NBM	SOP18	300mil	UWTR-ADP036	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F672NBP	DIP18	300mil	UWTR-ADP036		
	EM78F672NCM	SOP16	300mil	UWTR-ADP046	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78F672NCP	DIP16	300mil	UWTR-ADP046		
EM78P131A	EM78P131AMS10	MSOP10	118mil	UWTR-ADP067	UWTR-MS10-118	656-0102211
EM78P132	EM78P132SS10	SSOP10	150mil	UWTR-ADP044-B	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
EM78P134N	EM78P134NMS10	MSOP10	118mil	UWTR-ADP067	UWTR-MS10-118	656-0102211
EM78P141	EM78P141MS10J	MSOP10	118mil	UWTR-ADP006	UWTR-MS10-118	656-0102211
EM78P142	EM78P142SS10	SSOP10	150mil	UWTR-ADP006-A	UWTR-SS10-150	A-SOP-10-1.0-6X4.9



EM78P143	EM78P143MS10J	MSOP10	118mil	UWTR-ADP006	UWTR-MS10-118	656-0102211
EM78P152	EM78P152SN	SSOP10	150mil	UWTR-ADP067	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
EM78P153A	EM78P153AD14J	DIP14	300mil	UWTR-ADP064		
	EM78P153ASO14J	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
EM78P153S	EM78P153SN/S/J	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P153SP/S/J	DIP14	300mil	UWTR-ADP064		
EM78P153K	EM78P153KD14	DIP14	300mil	UWTR-ADP064		UWTR-ADP064
	EM78P153KSO14	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P153KSS10	MSOP10	118mil	UWTR-ADP067	UWTR-MS10-118	656-0102211
	EM78P153KASS10	MSOP10	118mil	UWTR-ADP064	UWTR-MS10-118	656-0102211
EM78P154N	EM78P1541NAMJ/S	SOP16	150mil	UWTR-ADP044-A	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P154NMJ/S	SOP14	150mil	UWTR-ADP044	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P154NPJ/S	DIP14	300mil	UWTR-ADP044		
EM78P156E	EM78P156ELAS	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P156ELKM	SSOP20	209mil	UWTR-ADP007-A	UWTR-SS24/20-209	IC51-0242-913
	EM78P156ELM	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P156ELP	DIP18	300mil	UWTR-ADP007		
EM78P156K	EM78P156KD18	DIP18	600mil	UWTR-ADP007		
	EM78P156KSO18	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P156KJSS20	SSOP20	209mil	UWTR-ADP007-A	UWTR-SS24/20-209	IC51-0242-913
EM78P156N	EM78P156NASY/S/J	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P156NKMY/S/J	SSOP20	209mil	UWTR-ADP007-A	UWTR-SS24/20-209	IC51-0242-913
	EM78P156NMY/S/J	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P156NPY/S/J	DIP18	300mil	UWTR-ADP007		
EM78P157N	EM78P157NAM	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P157NAP	DIP18	300mil	UWTR-ADP007		
	EM78P157NBM	SOP14	150mil	UWTR-ADP044	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P157NBP	DIP14	300mil	UWTR-ADP044		
EM78P159N	EM78P159NASJ/S	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P159NKMJ	SSOP20	209mil	UWTR-ADP007-A	UWTR-SS24/20-209	IC51-0242-913
	EM78P159NMJ/S	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P159NPJ/S	DIP18	300mil	UWTR-ADP007		
EM78P163N	EM78P163ND14J	DIP14	300mil	UWTR-ADP064		
	EM78P163ND16J	DIP16	300mil	UWTR-ADP064		
	EM78P163NSO14J	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P163NSO16J	SOP16	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
EM78P164N	EM78P164ND14	DIP14	300mil	UWTR-ADP064		
	EM78P164ND16	DIP16	300mil	UWTR-ADP064		



**UWTR EM78 series USB writer**

	EM78P164NSO14	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P164NSO16	SOP16	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
EM78P173N	EM78P173ND14	DIP14	300mil	UWTR-ADP064		
	EM78P173NMS10	MSOP10	118mil	UWTR-ADP067	UWTR-MS10-118	656-0102211
	EM78P173NSO14	SOP14	150mil	UWTR-ADP064	UWTR-SO16/14-150	OTS-16-1.27-03
EM78P176N	EM78P176ND18	DIP18	300mil	UWTR-ADP007		
	EM78P176NMS10	MSOP10	118mil	UWTR-ADP044-B	UWTR-MS10-118	656-0102211
	EM78P176NSO18	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P176NSO20	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P176NSS10	SSOP10	150mil	UWTR-ADP044-B	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
	EM78P176NSS20	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P176NJSS20	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
EM78P202N	EM78P202ND18	DIP18	300mil	UWTR-ADP015		
	EM78P202ND20	DIP20	300mil	UWTR-ADP027		
	EM78P202NSO18	SOP18	300mil	UWTR-ADP015	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P202NSO20	SOP20	300mil	UWTR-ADP027	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
EM78P210N	EM78P210ND20J/S	DIP20	300mil	UWTR-ADP048		
	EM78P210NK24J/S	SKDIP24	300mil	UWTR-ADP049		
	EM78P210NSO20J/S	SOP20	300mil	UWTR-ADP048	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P210NSO24J/S	SOP24	300mil	UWTR-ADP049	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P210NSS20J/S	SSOP20	209mil	UWTR-ADP048	UWTR-SS24/20-209	IC51-0242-913
	EM78P210NSS24AJ/S	SSOP24	209mil	UWTR-ADP049	UWTR-SS24/20-209	IC51-0242-913
EM78P220N	EM78P220NK24J/S	SKDIP24	300mil	UWTR-ADP049		
	EM78P220NK28J/S	SKDIP28	300mil	UWTR-ADP021		
	EM78P220NSO24J/S	SOP24	300mil	UWTR-ADP049	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P220NSO28J/S	SOP28	300mil	UWTR-ADP021	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P220NSS24AJ/S	SSOP24	209mil	UWTR-ADP049	UWTR-SS24/20-209	IC51-0242-913
	EM78P220NSS28J/S	SSOP28	209mil	UWTR-ADP021	UWTR-SS30/28/24/20-209	IC51-0302-755
EM78P224N	EM78P224ND28	DIP28	600mil	UWTR-ADP019		
	EM78P224ND32	DIP32	600mil	UWTR-ADP019		
	EM78P224NK28	SKDIP28	400mil	UWTR-ADP019	UWTR-SKDIP-400/600	232-1291-00
	EM78P224NSO28	SOP28	300mil	UWTR-ADP019	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P224NSO32	SOP32	450mil	UWTR-ADP019	UWTR-SO32-450	IC51-0322-667
	EM78P224NSO32A	SOP32	300mil	UWTR-ADP019	UWTR-SO32/28/24/20/18/16-300	OTS-28-1.27-04
EM78P256N	EM78P256NKMxS/xJ	SSOP10	150mil	UWTR-ADP006-A	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
EM78P257	EM78P257AKM	SSOP20	209mil	UWTR-ADP007-A	UWTR-SS24/20-209	IC51-0242-913
	EM78P257AM	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P257AP	DIP18	300mil	UWTR-ADP007		
	EM78P257BM	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04



	EM78P257BP	DIP20	300mil	UWTR-ADP007		
EM78P259N	EM78P259ND14J/S	DIP14	300mil	UWTR-ADP044		
	EM78P259ND18J/S	DIP18	300mil	UWTR-ADP007		
	EM78P259ND20J/S	DIP20	300mil	UWTR-ADP007		
	EM78P259NSO14J/S	SOP14	150mil	UWTR-ADP044	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P259NSO16AJ/S	SOP16	150mil	UWTR-ADP007-B	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P259NSO18J/S	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P259NSO20J/S	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P259NSS20J/S	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
EM78P301N	EM78P301NMS10J	MSOP10	118mil	UWTR-ADP093	UWTR-MS10-118	656-0102211
	EM78P301NSS10J	SSOP10	150mil	UWTR-ADP093	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
	EM78P301ND14J	DIP14	300mil	UWTR-ADP093		
	EM78P301NSO14J	SOP14	150mil	UWTR-ADP093		
EM78P310N	EM78P310NSO18J	SOP18	300mil	UWTR-ADP093	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
EM78P311N	EM78P311NAK	SKDIP28	300mil	UWTR-ADP013		
	EM78P311NK	SKDIP28	400mil	UWTR-ADP013	UWTR-SKDIP-400/600	232-1291-00
	EM78P311NM	SOP28	300mil	UWTR-ADP013	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P311NP	DIP28	600mil	UWTR-ADP013		
	EM78P311NS	SSOP28	209mil	UWTR-ADP013	UWTR-SS30/28/24/20-209	IC51-0302-755
EM78P312N	EM78P312NAK	SKDIP28	300mil	UWTR-ADP013		
	EM78P312NK	SKDIP28	400mil	UWTR-ADP013	UWTR-SKDIP-400/600	232-1291-00
	EM78P312NM	SOP28	300mil	UWTR-ADP013	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P312NP	DIP28	600mil	UWTR-ADP013		
	EM78P312NS	SSOP28	209mil	UWTR-ADP013	UWTR-SS30/28/24/20-209	IC51-0302-755
EM78P330N	EM78P330NAKS/J	SKDIP28	300mil	UWTR-ADP011		
	EM78P330NMS/J	SOP28	300mil	UWTR-ADP011	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P330NPS/J	DIP28	600mil	UWTR-ADP011		
EM78P331N	EM78P331NKS/J	SKDIP32	400mil	UWTR-ADP012	UWTR-SKDIP-400/600	232-1291-00
	EM78P331NMS/J	SOP32	300mil	UWTR-ADP012	UWTR-SO32/28/24/20/18/16-300	652D0322211-001
	EM78P331NPS/J	DIP32	600mil	UWTR-ADP012		
	EM78P331NQS/J	LQFP32	7X7	UWTR-ADP054	UWTR-LQFP32-7x7	IC51-0324-1498
EM78P342N	EM78P342ND14J/S	DIP14	300mil	UWTR-ADP044		
	EM78P342ND18J/S	DIP18	300mil	UWTR-ADP007		
	EM78P342ND20J/S	DIP20	300mil	UWTR-ADP007		
	EM78P342NSO14J/S	SOP14	150mil	UWTR-ADP044	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P342NSO16AJ/S	SOP16A	150mil	UWTR-ADP007-B	UWTR-P259NSO16A/P342NSO16A	OTS-16-1.27-03
	EM78P342NSO18J/S	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P342NSO20J/S	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P342NSS20J/S	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913



EM78P346N	EM78P346ND18J/S	DIP18	300mil	UWTR-ADP009		
	EM78P346ND20J/S	DIP20	300mil	UWTR-ADP009		
	EM78P346NK24J/S	SKDIP24	300mil	UWTR-ADP009		
	EM78P346NSO18J/S	SOP18	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P346NSO20J/S	SOP20	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P346NSO24J/S	SOP24	300mil	UWTR-ADP009	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P346NSS20J/S	SSOP20	209mil	UWTR-ADP009	UWTR-SS24/20-209	IC51-0242-913
	EM78P346NSS24J/S	SSOP24	150mil	UWTR-ADP009	UWTR-SS28/24/20/16-150	OTS-28-0.635-02
EM78P349N	EM78P349NK24S/J	SKDIP24	300mil	UWTR-ADP044		
	EM78P349NK28S/J	SKDIP28	300mil	UWTR-ADP007		
	EM78P349NSO24S/J	SOP24	300mil	UWTR-ADP044	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P349NSO28S/J	SOP28	300mil	UWTR-ADP007	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78P362N	EM78P362NH			UWTR-ADP007		
EM78P366N	EM78P366NQN24	QFN24	4x4	UWTR-ADP097	UWTR-QFN24-4x4	QFN-24BT-0.5-01
	EM78P366NSS24	SSOP24	150mil	UWTR-ADP099	UWTR-SS28/24/20/16-150	OTS-28-0.635-02
	EM78P366NSS24A	SSOP24	209mil	UWTR-ADP099	UWTR-SS24/20-209	IC51-0242-913
	EM78P366NSO24	SOP24	300mil	UWTR-ADP099	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P366NSO20	SOP20	300mil	UWTR-ADP100	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
EM78P372N	EM78P372ND14J/S	DIP14	300mil	UWTR-ADP044		
	EM78P372ND18J/S	DIP18	300mil	UWTR-ADP007		
	EM78P372ND20J/S	DIP20	300mil	UWTR-ADP007		
	EM78P372NMS10	MSOP10	118mil	UWTR-ADP006-A	UWTR-MS10-118	656-0102211
	EM78P372NSO14J/S	SOP14	150mil	UWTR-ADP044	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P372NSO16AJ/S	SOP16A	150mil	UWTR-ADP007-B	UWTR-SO16/14-150	OTS-16-1.27-03
	EM78P372NSO18J/S	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P372NSO20J/S	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P372NSS10	SSOP10	150mil	UWTR-ADP006-A	UWTR-SS10-150	A-SOP-10-1.0-6X4.9
	EM78P372NSS20J/S	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P372NQN16	QFN16	3x3	UWTR-ADP089	UWTR-QFN16-3x3	A-QFN-16-0.5-3*3
QFN16		3x3	UWTR-ADP089	UWTR-QFN16-3x3	QFN-16BT-0.5-01	
EM78P374	EM78P374ND18	DIP18	300mil	UWTR-ADP007		
	EM78P374ND20	DIP20	300mil	UWTR-ADP007		
	EM78P374NK24	SKDIP24	300mil	UWTR-ADP007		
	EM78P374NSO18	SOP18	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P374NSO20	SOP20	300mil	UWTR-ADP007	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P374NSO24	SOP24	300mil	UWTR-ADP007	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P374NSS20	SSOP20	209mil	UWTR-ADP007	UWTR-SS24/20-209	IC51-0242-913
	EM78P374NSS24	SSOP24	150mil	UWTR-ADP007	UWTR-SS28/24/20/16-150	OTS-28-0.635-02
EM78P418	EM78P418ND18J/S-Q	DIP18	300mil	UWTR-ADP009		





	EM78P418ND20J/S-Q	DIP20	300mil	UWTR-ADP009		
	EM78P418NK24J/S-Q	SKDIP24	300mil	UWTR-ADP009		
	EM78P418NSO18J/S-Q	SOP18	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P418NSO20J/S-Q	SOP20	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P418NSO24J/S-Q	SOP24	300mil	UWTR-ADP009	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P418NSS24J/S-Q	SSOP24	150mil	UWTR-ADP009-A	UWTR-SS28/24/20/16-150	OTS-28-0.635-02
EM78P447N	EM78P447NAM	SOP28	300mil	UWTR-ADP019	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P447NAP	DIP28	600mil	UWTR-ADP019		
	EM78P447NAS	SSOP28	209mil	UWTR-ADP019-A	UWTR-SS30/28/24/20-209	IC51-0302-755
	EM78P447NBK	SKDIP32	400mil	UWTR-ADP019	UWTR-SKDIP-400/600	232-1291-00
	EM78P447NBM	SOP32	300mil	UWTR-ADP019	UWTR-SO32/28/24/20/18/16-300	652D0322211-001
	EM78P447NBP	DIP32	600mil	UWTR-ADP019		
	EM78P447NBWM	SOP32	450mil	UWTR-ADP019	UWTR-SO32-450	IC51-0322-667
	EM78P447NCK	SKDIP24	300mil	UWTR-ADP049		
	EM78P447NCM	SOP24	300mil	UWTR-ADP049	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P447NEP	DIP28	600mil	UWTR-ADP021		
EM78P447NGK	SKDIP28	400mil	UWTR-ADP021	UWTR-SKDIP-400/600	232-1291-00	
EM78P447S	EM78P447SAK	SKDIP28	300mil	UWTR-ADP059		
	EM78P447SAM	SOP28	300mil	UWTR-ADP019	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P447SAP	DIP28	600mil	UWTR-ADP019		
	EM78P447SAS	SSOP28	209mil	UWTR-ADP019-A	UWTR-SS30/28/24/20-209	IC51-0302-755
	EM78P447SBM	SOP32	300mil	UWTR-ADP019	UWTR-SO32/28/24/20/18/16-300	652D0322211-001
	EM78P447SBP	DIP32	600mil	UWTR-ADP019		
	EM78P447SBWM	SOP32	450mil	UWTR-ADP019	UWTR-SO32-450	IC51-0322-667
	EM78P447SCK	SKDIP24	300mil	UWTR-ADP049		
	EM78P447SCM	SOP24	300mil	UWTR-ADP049	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78P451S	EM78P451SAQ	QFP44	10x10	UWTR-ADP050-B	UWTR-QFP44-10x10	IC51-0444-798
		QFP44	10x10	UWTR-ADP050-B	UWTR-QFP44-10x10	FPG-44-0.8-17
	EM78P451SP	DIP40	600mil	UWTR-ADP020		
	EM78P451SWM	SOP40	450mil	UWTR-ADP020	UWTR-SO40/32-450	OTS-40-1.27-01
EM78P458	EM78P458AM	SOP20	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P458AP	DIP20	300mil	UWTR-ADP009		
	EM78P458BM	SOP18	300mil	UWTR-ADP009	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P458BP	DIP18	300mil	UWTR-ADP009		
EM78P459	EM78P459AK	SKDIP24	300mil	UWTR-ADP023		
	EM78P468NAQxS/xJ	LQFP64	7x7	UWTR-ADP052	UWTR-LQFP64-7x7	IC51-0644-1972
EM78P468B	EM78P468BL44	LQFP44	10x10	UWTR-ADP050	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P468BQ44	QFP44	10x10	UWTR-ADP050	UWTR-QFP44-10x10	IC51-0444-798
	EM78P468BL64	LQFP64	7x7	UWTR-ADP052	UWTR-LQFP64-7X7	IC51-0644-1972





	EM78P468BQ64	QFP64	14x20	UWTR-ADP052	UWTR-QFP64-14x20	IC51-0644-820-2
	EM78P468BQ64B	QFP64	14x20	UWTR-ADP052	UWTR-QFP64-14x20	IC51-0644-820-2
EM78P468NB	EM78P468NBL44	LQFP44	10x10	UWTR-ADP050	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P468NBL64	LQFP64	7x7	UWTR-ADP052	UWTR-LQFP64-7x7	IC51-0644-1972
	EM78P468NBQ44	QFP44	10x10	UWTR-ADP050	UWTR-QFP44-10x10	IC51-0444-798
	EM78P468NBQ64	QFP64	14x20	UWTR-ADP052	UWTR-QFP64-14x20	IC51-0644-820-2
	EM78P468NBQ64A	QFP64	14x14	UWTR-ADP052	UWTR-QFP64-14x14	IC51-0644-824-1
	EM78P468NBQxS/xJ	LQFP44	10x10	UWTR-ADP050	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P468NCQxS/xJ	QFP44	10x10	UWTR-ADP050	UWTR-QFP44-10x10	IC51-0444-798
	EM78P468NEQxS/xJ	QFP64	14x14	UWTR-ADP052	UWTR-QFP64-14x14	IC51-0644-824-1
EM78P468N/L	EM78P468NQxS/xJ	QFP64	14x20	UWTR-ADP052	UWTR-QFP64-14x20	IC51-0644-820-2
EM78P469	EM78P469AL64	LQFP64	7X7	UWTR-ADP052	UWTR-P469AL64	IC51-0644-1972
	EM78P469AL64	LQFP64	7X7	UWTR-ADP052-A	UWTR-LQFP64-7x7	IC51-0644-1972
	EM78P469AQ64BJ	QFP64	14x14	UWTR-ADP052-A	UWTR-QFP64-14x14	IC51-0644-824-1
	EM78P469BL64J	LQFP64	7X7	UWTR-ADP052	UWTR-P468NAQ/P469BL64	IC51-0644-1972
	EM78P469BL64J	LQFP64	7x7	UWTR-ADP052	UWTR-LQFP64-7x7	IC51-0644-1972
	EM78P469BQ64BJ	QFP64	14x14	UWTR-ADP052	UWTR-QFP64-14x14	IC51-0644-824-1
	EM78P469L44J	LQFP44	10x10	UWTR-ADP050	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P469Q44J	QFP44	10x10	UWTR-ADP050	UWTR-QFP44-10x10	IC51-0444-798
EM78P470N	EM78P470NL44SU	LQFP 44	7x7	UWTR-ADP050	UWTR-LQFP64-7x7	IC51-0644-1972
	EM78P470NQ44JV/SU	QFP44	10x10	UWTR-ADP050	UWTR-QFP44-10x10	IC51-0444-798
EM78P507N	EM78P507NL44	LQFP44	10x10	UWTR-ADP050-D	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P507NL48	LQFP48	7x7	UWTR-ADP050-D	UWTR-LQFP48-7x7	IC51-0484-806x
	EM78P507NQ44	QFP44	10x10	UWTR-ADP050-D	UWTR-QFP44-10x10	IC51-0444-798
EM78P520N	EM78P520NK32AJ/S	SKDIP32	400mil	UWTR-ADP060	UWTR-SKDIP-400/600	232-1291-00
	EM78P520NL44J/S	LQFP44	10x10	UWTR-ADP050-C	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P520NL48J/S	LQFP48	7x7	UWTR-ADP050-C	UWTR-LQFP48-7x7	IC51-0484-806x
	EM78P520NQ44J/S	QFP44	10x10	UWTR-ADP050-C	UWTR-QFP44-10x10	IC51-0444-798
	EM78P520NSO32J/S	SOP32	450mil	UWTR-ADP060	UWTR-SO32-450	IC51-0322-667
EM78P528N	EM78P528NL44	LQFP44	10x10	UWTR-ADP050-C	UWTR-LQFP44-10x10	FPQ-44-0.8-19
	EM78P528NL48	LQFP48	7x7	UWTR-ADP050-C	UWTR-LQFP48-7x7	IC51-0484-806x
	EM78P528NQ44	QFP44	10x10	UWTR-ADP050-C	UWTR-QFP44-10x10	IC51-0444-798
EM78P570	EM78P570L100	LQFP100	14x20	UWTR-ADP053	UWTR-P570L100	IC51-1004-814-13
	EM78P570L48	LQFP48	7x7	UWTR-ADP051	UWTR-LQFP48-7x7	IC51-0484-806x
	EM78P570L64	LQFP64	10x10	UWTR-ADP052-B	UWTR-P570L64	IC51-0644-807
EM78P5840N	EM78P5840ND18J/S	DIP18	300mil	UWTR-ADP042		
	EM78P5840ND20J/S	DIP20	300mil	UWTR-ADP043		
	EM78P5840ND24J/S	DIP24	600mil	UWTR-ADP031		
	EM78P5840NK24J/S	SKDIP24	300mil	UWTR-ADP031		



	EM78P5840NSO18J/S	SOP18	300mil	UWTR-ADP042	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P5840NSO20J/S	SOP20	300mil	UWTR-ADP043	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P5840NSO24J/S	SOP24	300mil	UWTR-ADP031	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
EM78P5841N	EM78P5841NM	SOP20	300mil	UWTR-ADP043	UWTR-SO20/18/16-300	OTS-20(28)-1.27-04
	EM78P5841NP	DIP20	300mil	UWTR-ADP043		
EM78P5842N	EM78P5842NK	SKDIP24	300mil	UWTR-ADP031		
	EM78P5842NP	DIP24	600mil	UWTR-ADP031		
EM78P666L	EM78P666LM	SSOP24	209mil	UWTR-ADP020-A	UWTR-SS24/20-209	IC51-0242-913
EM78P809N	EM78P809NMS/J	SOP28	300mil	UWTR-ADP013	UWTR-SO28/24/20/18/16-300	OTS-28-1.27-04
	EM78P809NPS/J	DIP28	600mil	UWTR-ADP013		
	EM78P809NSS/J	SSOP28	209mil	UWTR-ADP013	UWTR-SS30/28/24/20-209	IC51-0302-755



Revision History		
Version	Revision Description	Date
1.0	Initial version	2009/07/06
1.1	Add EM78F664NQN32	2009/07/09
1.2	Update version to v1.00, add Special part number	2009/07/28
1.3	Add the Testool part numbe	2009/08/03
3.0	Update version with eWriter v1.03.00	2009/10/27
3.1	Update version with eWriter v1.03.01	2009/12/09
4	Update version with eWriter v1.04.03	2010/04/20
41	Update EM78P224N/EM78P374N Textool part number	2010/04/28
5	Update version with eWriter v1.05.06	2010/08/16
5.1	Update version with eWriter v1.05.09	2010/10/27
6	Update version with eWriter v1.09.10	2011/06/28
7	Update version with eWriter v1.14.08	2013/01/22
7.1	1. Cancel the EM78F652N ADP-032 2. Add the FPG-44-0.8-17 socket for QFP44	2013/04/11
8	Update version with eWriter v2.02.00	2013/05/15
8.1	Add the EM78F665N	2013/05/25
2.03.02	1. Synchronize the UWTR version 2. Add the EM78F668SOP20/EM78P310NSO18/EM78P366N	2013/08/30