

СПИСОК КОМПЛЕКТУЮЩИХ для RAINBOW v1.1s

 Кол-во Наименование RefDes Корпус Номинал / Описание

МИКРОСХЕМЫ

 1 AT91RM9200 U10 PQFP-208 процессор
 ds http://www.atmel.com/dyn/resources/prod_documents/doc1768.pdf
 850= <http://www.terraelectronica.ru/>
 00.00\$ <http://shop.efo.ru/>

2 AT45DBXXX_U U7 TSOP28-40 флэш память
 U8

Device	Density	Page size, bytes	Number of pages	Pattern
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AT45DB021B	2 Mbits	264	1024	TSOP28 http://www.atmel.com/dyn/resources/prod_documents/doc1937.pdf
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AT45DB041B	4 Mbits	264	2048	TSOP28 http://www.atmel.com/dyn/resources/prod_documents/doc3443.pdf
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AT45DB081B	8 Mbits	264	4096	TSOP28 http://www.atmel.com/dyn/resources/prod_documents/doc2225.pdf
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AT45DB161B	16 Mbits	528	4096	TSOP28 http://www.atmel.com/dyn/resources/prod_documents/doc2224.pdf
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AT45DB321B	32 Mbits	528	8192	TSOP28	not recomm.
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AT45DB321C	32 Mbits	528	8192	TSOP28 http://www.atmel.com/dyn/resources/prod_documents/doc3387.pdf
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AT45DB642	64 Mbits	1056	8192	TSOP40 http://www.atmel.com/dyn/resources/prod_documents/DOC1638.PDF
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<http://www.terraelectronica.ru/>
<http://www.chipdip.ru/>

2 IS42S16400B U14 TSOP-II-54 SDRAM
 U15

Part	Density, Mbytes	Density, Mbits	Depth	Width	Clock Rate	Manufacturer
K4S161622H-TC55	2MB	16Mb	1Mb	x16	183 MHz	Samsung
K4S161622H-TC60	2MB	16Mb	1Mb	x16	166 MHz	Samsung
K4S161622H-TC70	2MB	16Mb	1Mb	x16	143 MHz	Samsung
K4S161622H-TC80	2MB	16Mb	1Mb	x16	125 MHz	Samsung
IS42S16400B	8MB	64Mb	4Mb	x16	125 MHz	ETC

MT48LC4M16A2P-6	8MB	64Mb	4Mb	x16	166 MHz	Micron
MT48LC4M16A2P-75	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2P-75 IT	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2P-75 L	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2P-7E	8MB	64Mb	4Mb	x16	143 MHz	Micron
MT48LC4M16A2P-7E IT	8MB	64Mb	4Mb	x16	143 MHz	Micron
MT48LC4M16A2TG-6	8MB	64Mb	4Mb	x16	166 MHz	Micron
MT48LC4M16A2TG-75	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2TG-75 IT	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2TG-75 L	8MB	64Mb	4Mb	x16	133 MHz	Micron
MT48LC4M16A2TG-7E	8MB	64Mb	4Mb	x16	143 MHz	Micron
MT48LC4M16A2TG-7E IT	8MB	64Mb	4Mb	x16	143 MHz	Micron
K4S641632H-TC(L)60	8MB	64Mb	4Mb	x16	166 MHz	Samsung
K4S641632H-TC(L)70	8MB	64Mb	4Mb	x16	143 MHz	Samsung
K4S641632H-TC(L)75	8MB	64Mb	4Mb	x16	133 MHz	Samsung
HY57V641620F(L/S)TP-H	8MB	64Mb	4Mb	x16	133 MHz	Hynix
HY57V641620F(L/S)TP-7	8MB	64Mb	4Mb	x16	143 MHz	Hynix
HY57V641620F(L/S)TP-6	8MB	64Mb	4Mb	x16	166 MHz	Hynix
HY57V641620F(L/S)TP-5	8MB	64Mb	4Mb	x16	200 MHz	Hynix
MT48LC8M16A2P-6A	16MB	128Mb	8Mb	x16	167 MHz	Micron
MT48LC8M16A2P-75	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2P-75 IT	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2P-75 L	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2P-7E	16MB	128Mb	8Mb	x16	143 MHz	Micron
MT48LC8M16A2P-7E IT	16MB	128Mb	8Mb	x16	143 MHz	Micron
MT48LC8M16A2TG-6A	16MB	128Mb	8Mb	x16	167 MHz	Micron
MT48LC8M16A2TG-75	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2TG-75 IT	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2TG-75 L	16MB	128Mb	8Mb	x16	133 MHz	Micron
MT48LC8M16A2TG-7E	16MB	128Mb	8Mb	x16	143 MHz	Micron
MT48LC8M16A2TG-7E IT	16MB	128Mb	8Mb	x16	143 MHz	Micron
K4S281632F-TC(L)60/75	16MB	128Mb	8Mb	x16	167 MHz	Samsung
HY57V281620F(L/S)TP-H	16MB	128Mb	8Mb	x16	133 MHz	Hynix
HY57V281620F(L/S)TP-7	16MB	128Mb	8Mb	x16	143 MHz	Hynix
HY57V281620F(L/S)TP-6	16MB	128Mb	8Mb	x16	166 MHz	Hynix
HY57V281620F(L/S)TP-5	16MB	128Mb	8Mb	x16	200 MHz	Hynix
MT48LC16M16A2P-6A	32MB	256Mb	16Mb	x16	167 MHz	Micron
MT48LC16M16A2P-75	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2P-75 IT	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2P-75 L	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2P-7E	32MB	256Mb	16Mb	x16	143 MHz	Micron
MT48LC16M16A2P-7E IT	32MB	256Mb	16Mb	x16	143 MHz	Micron
MT48LC16M16A2P-7E L	32MB	256Mb	16Mb	x16	143 MHz	Micron
MT48LC16M16A2TG-6A	32MB	256Mb	16Mb	x16	167 MHz	Micron
MT48LC16M16A2TG-75	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2TG-75 IT	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2TG-75 L	32MB	256Mb	16Mb	x16	133 MHz	Micron
MT48LC16M16A2TG-7E L	32MB	256Mb	16Mb	x16	143 MHz	Micron
K4S561632H-T(U)C/L75	32MB	256Mb	16Mb	x16	133 MHz	Samsung
K4S561632H-T(U)C/L60	32MB	256Mb	16Mb	x16	166 MHz	Samsung
HY57V561620BT-S	32MB	256Mb	16Mb	x16	100 MHz	Hynix
HY57V561620BT-P	32MB	256Mb	16Mb	x16	100 MHz	Hynix
HY57V561620BT-8	32MB	256Mb	16Mb	x16	125 MHz	Hynix
HY57V561620BT-H	32MB	256Mb	16Mb	x16	133MHz	Hynix
HY57V561620BT-K	32MB	256Mb	16Mb	x16	133 MHz	Hynix
HY57V561620BT-7	32MB	256Mb	16Mb	x16	143 MHz	Hynix

HY57V561620BT-6	32MB	256Mb	16Mb x16	166 MHz	Hynix
MT48LC32M16A2P-75	64MB	512Mb	32Mb x16	133 MHz	Micron
MT48LC32M16A2P-75 IT	64MB	512Mb	32Mb x16	133 MHz	Micron
MT48LC32M16A2P-7E	64MB	512Mb	32Mb x16	143 MHz	Micron
MT48LC32M16A2TG-75	64MB	512Mb	32Mb x16	133 MHz	Micron
MT48LC32M16A2TG-75 IT	64MB	512Mb	32Mb x16	133 MHz	Micron
K4S511632D-UC(L)75	64MB	512Mb	32Mb x16	133 MHz	Samsung

ds <http://www.micron.com/products/dram/sdram/partlist.aspx>
http://www.samsung.com/products/semiconductor/Sync_AsyncDRAM/SDRSDRAM/Component/16Mbit/K4S161622H/K4S161622H.htm
http://www.samsung.com/products/semiconductor/Sync_AsyncDRAM/SDRSDRAM/Component/64Mbit/K4S641632H/K4S641632H.htm
http://www.samsung.com/products/semiconductor/Sync_AsyncDRAM/SDRSDRAM/Component/128Mbit/K4S281632K/K4S281632K.htm
http://www.samsung.com/products/semiconductor/Sync_AsyncDRAM/SDRSDRAM/Component/256Mbit/K4S561632H/K4S561632H.htm
http://www.samsung.com/products/semiconductor/Sync_AsyncDRAM/SDRSDRAM/Component/512Mbit/K4S511632D/K4S511632D.htm
[http://www.hynix.com/datasheet/pdf/consumer/HY57V281620F\(L_S\)T\(P\)_Series\(Rev.1.0\).pdf](http://www.hynix.com/datasheet/pdf/consumer/HY57V281620F(L_S)T(P)_Series(Rev.1.0).pdf)
[http://www.hynix.com/datasheet/pdf/consumer/HY57V641620F\(L_S\)TP_series\(Rev1.0\).pdf](http://www.hynix.com/datasheet/pdf/consumer/HY57V641620F(L_S)TP_series(Rev1.0).pdf)
[http://www.hynix.com/datasheet/pdf/dram/HY57V561620B\(L_S\)T\(Rev1.4\).pdf](http://www.hynix.com/datasheet/pdf/dram/HY57V561620B(L_S)T(Rev1.4).pdf)

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<http://www.chipdip.ru/>
<http://www.platan.ru/>
<http://www.efo.ru/>
<http://www.cec-mc.ru/>
<http://www.cec-mc.ru/sclad/warehouse.php?name=K4S641632K-UC75&proizv=%CF%F0%EE%E8%E7%E2%EE%E4%E8%F2%E5%EB%FC&next=0>

1 74HC244 U6 SOIC-20-2
ds <http://www.terraelectronica.ru/>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 74HC245 U13 SOIC-20-2
ds <http://www.terraelectronica.ru/>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 DS18S20 U12 TO-92 термометр
ds <http://datasheets.maxim-ic.com/en/ds/DS18S20.pdf>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 DS1307 U11 SOIC-8 real-time clock (RTC)
ds <http://datasheets.maxim-ic.com/en/ds/DS1307.pdf>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 IRU-1010-18 U3 D-PAK стабилизатор
ds <http://www.irf.com/product-info/datasheets/data/iru1010-18.pdf>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 IRU-1010-33 U2 D-PAK стабилизатор
ds <http://www.irf.com/product-info/datasheets/data/iru1010-33.pdf>
20= <http://www.terraelectronica.ru/>
27= <http://www.chipdip.ru/product0/522639651.aspx>

1 KS8721BL U17 LQFP48 10/100 Ethernet трансивер
ds <http://>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>
00= <http://www.eltech.spb.ru/>

1 LP3470 U5 SOP-M5 супервизор сброса
ds <http://www.national.com/ds.cgi/LP/LP3470.pdf>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

1 LM2576T-5.0 U4 TO220 стабилизатор
ds <http://www.national.com/ds.cgi/LM/LM2576.pdf>
56= <http://www.terraelectronica.ru/>
64= <http://www.chipdip.ru/product0/10804.aspx>

1 LU1T516 -43-LF P10 RJ45 - LU1T516
трансформатор+разъём+светодиоды
замена: RD1-1D5B1A1A
ds <http://www.bothhand.com.tw/pdf/LU1Txxx%20Series.pdf>
http://www.wiznet.co.kr/wiz_data/RD1-1D5B1A1A.pdf
00= <http://www.chipdip.ru/product0/880855739.aspx>
00= <http://www.platan.ru/>
2.90\$ <http://www.efo.ru/>
00= <http://fulcrum.ru>

1 MAX3232 U16 SO16-UNI преобразователь rs232
ds <http://datasheets.maxim-ic.com/en/ds/MAX3222-MAX3241.pdf>
00= <http://www.terraelectronica.ru/>
00= <http://www.chipdip.ru/>

ДИОДЫ, ТРАНЗИСТОРЫ

2 30BQ100 VD1 SMC диод шоттки
VD2
ds <http://www.terraelectronica.ru/pdf/IR/30BQ100.pdf>
12= <http://www.terraelectronica.ru/>
12= <http://www.chipdip.ru/product0/651347639.aspx>

1	BAT54S	CR1	SOT23	диодная сборка
	ds	http://www.terraelectronica.ru/pdf/PH/BAT54.pdf		
	2=	http://www.terraelectronica.ru/		
	3=	http://www.chipdip.ru/product0/897366252.aspx		

1	BC848	VT3	SOT23	транзистор
	ds	http://www.fairchildsemi.com/ds/BC/BC848.pdf		
	2=	http://www.terraelectronica.ru/		
	3=	http://www.chipdip.ru/		

1	BC858	VT2	SOT23	транзистор
	ds	http://www.fairchildsemi.com/ds/BC%2FBC858.pdf		
	2=	http://www.terraelectronica.ru/		
	3=	http://www.chipdip.ru/		

КОНДЕНСАТОРЫ КЕРАМИЧЕСКИЕ

37	C-SMD-0805	C12	SMD-0805	0.01
		...		
		C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C72, C73, C74, C75, C76, C77, C78, C86, C87, C88, C89, C90, C91, C92, C107, C123, C129, C130		

66	C-SMD-0805	C2	SMD-0805	0.1
		...		
		C6, C9, C11, C13, C14, C15, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C44, C45, C46, C47, C48, C68, C70, C71, C79, C80, C81, C82, C83, C84, C85, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C106, C108, C109, C112, C113, C114, C115, C122, C124, C125, C126, C127, C128		

2	C-SMD-0805	C16	SMD-0805	12pF
		C17		

2	C-SMD-0805	C116	SMD-0805	15pF
		C117		

4	C-SMD-0805	C67	SMD-0805	22pF
		...		
		C69, C110, C111		

2	C-SMD-0805	C18	SMD-0805	27pF
		C19		

1	C-SMD-0805	C120	SMD-0805	33pF
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2	C-SMD-0805	C118	SMD-0805	47pF
		C121		

1	C-SMD-0805	C22	SMD-0805	470pF
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1	C-SMD-0805	C21	SMD-0805	680pF
1	C-SMD-0805	C23	SMD-0805	4700pF
1	C-SMD-0805	C20	SMD-0805	5600pF

КОНДЕНСАТОРЫ ЭЛЕКТРОЛИТИЧЕСКИЕ

3	C-SMD-1206-POL	C43 C105 C119	SMD-R-1206	10uF
2	CAP-5P	C4 C8	CAP-5,0	100uF
1	CAP-5P	C7	CAP-5,0	470,0x63v
1	CAP-5P	C10	CAP-5,0	1000,0x16v

ИНДУКТИВНОСТИ

1	DROSS-SDR1006	DR1	SDR1006	100мкГн
4	FBEAD-10	FB1 ... FB2,FB3,FB4	FBEAD-10	

РЕЗИСТОРЫ

30	CAY16-J4	RR1 ... RR2, RR3, RR4, RR5, RR6, RR7, RR8, RR9, RR10, RR11, RR12, RR13, RR14, RR15, RR16, RR17, RR18, RR19, RR20, RR21, RR22, RR23, RR24, RR25, RR26, RR45, RR46, RR47, RR48	CAY16-X4	68
2	R-SMD-0603	R18 R19	SMD-0603	22
4	R-SMD-0603	R25 ... R26, R39, R40	SMD-0603	68
1	R-SMD-0805	R43	SMD-0805	0
3	R-SMD-0805	R6 R27 R28	SMD-0805	1K
1	R-SMD-0805	R70	SMD-0805	1K5
1	R-SMD-0805	R20	SMD-0805	1K27
1	R-SMD-0805	R21	SMD-0805	1K96
6	R-SMD-0805	R73 ...	SMD-0805	3K3

		R74, R75, R76, R77, R78		
3	R-SMD-0805	R29 R41 R80	SMD-0805	4K7
1	R-SMD-0805	R56	SMD-0805	6K49
3	R-SMD-0805	R22 R23 R24	SMD-0805	10
29	R-SMD-0805	R5 ... R8, R10, R11, R12, R13, R14, R15, R16, R30, R31, R32, R33, R34, R35, R36, R37, R45, R47, R48, R49, R50, R51, R52, R53, R54, R55, R66, R79	SMD-0805	10K
3	R-SMD-0805	R65 R67 R72	SMD-0805	15K
1	R-SMD-0805	R71	SMD-0805	22K
4	R-SMD-0805	R63 ... R64, R68, R69	SMD-0805	27
4	R-SMD-0805	R58	SMD-0805	49.9 1%
	R-SMD-0805	R59	SMD-0805	49.9 1%
	R-SMD-0805	R60	SMD-0805	49.9 1%
	R-SMD-0805	R61	SMD-0805	49.9 1%
1	R-SMD-0805	R7	SMD-0805	50K
2	R-SMD-0805	R44 R46	SMD-0805	68
1	R-SMD-0805	R3	SMD-0805	200
5	R-SMD-0805	R2 ... R17, R38, R57, R62	SMD-0805	330
1	R-SMD-0805	R42	SMD-0805	470

КВАРЦЫ

2	QUARZ-AA	X2	QUARZ-AA	32768, 2x6 мм
	QUARZ-AA	X3	QUARZ-AA	32768, 2x6 мм
1	REZ_HC-49SM	X1	REZ_HC-49SM	16MHz
1	REZ_HC-49SM	X4	REZ_HC-49SM	25MHz

РАЗЪЕМЫ

1	POWER_CONN	P1	PWR_CONN	
1	CONN-IDC10	P4	CONN-IDC10	
3	CONN-IDC20	P2	CONN-IDC20	
		P3		
		P5		
2	CONN-IDC40	P7	CONN-IDC40	
		P8		
1	DB9MR	P9	DB9RM	
1	SDC09W1	P6	SDC09W1	SD/MMC
	00=			http://www.rct.ru/catalog/8/3064.html
	00=			http://www.terraelectronica.ru/
	00=			http://derikon.ru/
1	USB-A1	P11	USB-A1	
1	USB-B	P12	USB-B	
1	BAT_CR	B1	BAT_CR	

ПАЗНОЕ

11	JAMPER	J1	JMP2	
		...		
		J4, J5, J6, J7, J8, J9, J10, J11, J12, J14		
6	JAMPER3	J2	JMP3	
		...		
		J3, J13, J19, J21, J22		
1	KNOPKA	KN1	KNOPKA	6x6 мм / 5x7мм ???
4	LED	LD2	LED	
		...		
		LD3, LD4, LD5		