

## ZX SPECTRUM - PORTS TABLE

CORRECT VALUE	PORT	ADRESSATION A15 ... A0	READ	WRITE
255	xxxxxxxx11111111	xxxxxxxxxxxxxxxxxxx	48VRAM	-
31	xxxxxxxx00011111	xxxxxxxxxx0xxxxxx	KempstIF	-
31	xxxxxxxx00011111	xxxxxxxx0xxxxxx1	Kempst-M	-
254	xxxxxxxx11111110	xxxxxxxx1xxxxxx0	48ULA-M	48ULA-M
254	xxxxxxxx11111110	xxxxxxxxxxxxxxxxxxx0	48ULA	48ULA
	xxxxxxxx0BA11111	xxxxxxxx0xxxxxx	Gama8255	Gama8255
32765	011111111111101	0xxxxxxxxxxxxxxxx0x	128k/+2PAG*	128k/+2PAG
32765	011111111111101	01xxxxxxxxxxxxxxxx0x	+2a/+3PAG	+2a/+3PAG
65533	111111111111101	11xxxxxxxxxxxxxxxx0x	AYdataR	AYadr
49149	101111111111101	10xxxxxxxxxxxxxxxx0x	-	AYdataW
	xxxxxxxx0BA11111	xxxxxxxx0xx111xx	MB018255-1	MB018255-1
	xxxxxxxx0BA11011	xxxxxxxx0xx110xx	MB018255-2	MB018255-2
23	xxxxxxxx00010111	xxxxxxxx0xx101xx	MB01memsel*	MB01memsel
19	xxxxxxxx00010011	xxxxxxxx0xx100xx	stav.disk	mot+sel+rez
	xxxxxxxx0BA01111	xxxxxxxx0xx011xx	MB01WD2797	MB01WD2797
227	xxxxxxxx11100011	xxxxxxxx11100011	-	divIDENtrl
	xxxxxxxx101CBA11	xxxxxxxx101xxx11	IDEregs	IDEregs
	xxxxxxxx110CBA11	xxxxxxxx110xxx11	IDEregs-MB	IDEregs-MB
	xxxxxxxx10000BA1	xxxxxxxx10000xx1	D40/80FD	D40/80FD
	xxxxxxxx10001BA1	xxxxxxxx10001xx1	D40/80po	D40/80po
	xxxxxxxx1001C001	xxxxxxxx1001xxx1	D40/80en/di	D40/80en/di
	xxxxxxxx0AB11111	xxxxxxxx0xxxxxx	D40/80-8255	D40/80-8255
239	xxxxxxxx11101111	xxxxxxxx1110xxxx	-	ISO ROM 128
63	xxxxxxxx00111111	xxxxxxxx0xxxxxx	LIGHT PEN(DK)	-
250	xxxxxxxx11111010	xxxxxxxxxxxxxxxx0x0	-	Proface/Keyface
31	xxxxxxxx00011111	xxxxxxxx00011111	A-MOUSE	-
64223	1111101011011111	xxxxx0x011011111	K-MOUSEturboB	-
64479	1111101111011111	xxxxx0x111011111	K-MOUSEturboX	-
65503	1111111111011111	xxxxx1x111011111	K-MOUSEturboY	-

Free ports:111xxx11, value xxx can be 1-7. (port #FF is attribute port)

-----  
Russian K-MOUSE (colision with KEMPSTON(31),D40 and IDEregs-MB)

64223 1111101011011111 xxxxx0x01x0xxxx1 K-MOUSE\_B -

64479 1111101111011111 xxxxx0x11x0xxxx1 K-MOUSE\_X -

65503 1111111111011111 xxxxx1x11x0xxxx1 K-MOUSE\_Y -

K-MOUSE TURBO use full adressation (colision only with IDEregs-MB ports)

Original Kempston mouse adressation:

64223 1111101011011111 xxxxxx10xx0xxxxx K-MOUSE\_B -

64479 1111101111011111 xxxxx011xx0xxxxx K-MOUSE\_X -

65503 1111111111011111 xxxxx111xx0xxxxx K-MOUSE\_Y -

K-MOUSE TURBO ports:

All ports use full adressation

-port 64223 = buttons

-port 64479 = X (0-255)

-port 65503 = Y (0-255)

Port 31 A-MOUSE(support on K-MOUSE TURBO interface):

-use full adressation

**Keyboard Proface ports:**

- Keyb.Proface can be programmed by writing to port 250 ( FA )
- read data from Keyb.Proface on bit D7 on port 254 ( FE )