SWITCHED I/O PORTS (\$40 - \$4F) / Revision 003 / by KdL 2011.07.09

\$40	(read_n / write)		\$08 \$D4	MSX2+ FS-A1 SERIES* 1CHIPMSX	w/ Z80B 5.37MHz w/ OCM-PLD Pack v2.4				SMART COMMANDS TABLE
	(read_n / write)	BIT			.,,		\$00	(000)	Null Command (reserved)
		BIT					\$01	(/	Set Turbo Pana Redirection OFF (default)
		BIT					\$02 \$03	\ ,	Set Turbo Pana Redirection ON Set Standard Speed 3.58MHz
\$41		BIT		Smart Commands	Returns \$FF if Not Found		\$03 \$04		Set Custom Speed 4.10MHz
		BIT	5				\$05	(005)	Set Custom Speed 4.48MHz
		BIT					\$06		Set Custom Speed 4.90MHz
		BIT		Const. T. dec	Valuation CMM		\$07	,	Set Custom Speed 5.39MHz
	(read / write_n)	BIT		Green Turbo Display (MSB)	Virtual DIP-SW1 Virtual DIP-SW2		\$08 \$09	` '	Set Custom Speed 6.10MHz Set Custom Speed 6.96MHz
		BIT	2	Display (LSB)	Virtual DIP-SW3		\$0A	(010)	Set Custom Speed 8.06MHz (default) (originally called 10MHz)
\$42		BIT		Slot-1	Virtual DIP-SW4		\$0B	` '	Set Turbo MegaSD OFF
		BIT		Slot-2 (MSB) Slot-2 (LSB)	Virtual DIP-SW5 Virtual DIP-SW6		\$0C \$0D		Set Turbo MegaSD ON (default) Set External Slot-1 + External Slot-2
		BIT		Current Mapper	Virtual DIP-SW7		\$0E	(/	Set Internal SCC-I Slot-1 + External Slot-2
		BIT	7	Current MegaSD	Virtual DIP-SW8		\$0F		Set External Slot-1 + Internal SCC-I Slot-2
		BIT		Lock Mask of Toggles**	Turbo		\$10 \$11	(010)	Set Internal SCC-I Slot-1 + Internal SCC-I Slot-2 Set External Slot-1 + Internal ASCII-8K Slot-2
		BIT			Display Audio Mixer & CMT		\$11	()	Set Internal SCC-I Slot-1 + Internal ASCII-8K Slot-2
\$43	(read / write_n)	BIT	3		Slot-1		\$13	(/	Set External Slot-1 + Internal ASCII-16K Slot-2
,		BIT			Slot-2 Hard Reset		\$14 \$15		Set Internal SCC-I Slot-1 + Internal ASCII-16K Slot-2 Set Japanese Keyboard Layout
		BIT			Mapper		\$16		Set Non-Japanese Keyboard Layout
		BIT	7		MegaSD		\$17		Set Display Mode to 15KHz Composite / S-Video
\$44	(read / write_n)	BIT			Green Led 1		\$18	` '	Set Display Mode to 15KHz RGB w/ Audio (Mono)
		BIT		Lights Mode I/O	Green Led 2 Green Led 3		\$19 \$1A	, ,	Set Display Mode to 31Khz VGA Set Display Mode to 31Khz VGA w/ High Luminance
		BIT	3		Green Led 4		\$1A \$1B	, ,	Set VDP Speed to Normal Mode (default)
		BIT	4		Green Led 5		\$1C	(028)	Set VDP Speed to Fast Mode (V9958 only)
		BIT			Green Led 6		\$1D \$1E	, ,	Preset MegaSD OFF for next Warm Reset
		BIT			Green Led 7 Green Led 8		\$1E \$1F	, ,	Preset MegaSD ON for next Warm Reset Set MegaSD Blink OFF
		BIT			BIT 0 (LSB)		\$20		Set MegaSD Blink ON (default)
\$45	(read / write_n)	BIT	1	PSG Volume	BIT 1		\$21	(033)	Set Lights Mode OFF w/ Auto LEDs Control (default)
	(road only)	BIT		DCC Muto	BIT 2 (MSB)		\$22	(,	Set Lights Mode ON + Red Led OFF Set Lights Mode ON + Red Led ON
	(read only)	BIT		PSG Mute	Status BIT 0 (LSB)		\$23 \$24	(/	Set Audio Mute on PSG, SCC-I and OPLL
	(read / write_n)	BIT	5	Master Volume	BIT 1		\$25	(037)	Set Original Audio Settings on PSG, SCC-I and OPLL
	(read only)	BIT BIT		Master Mute	BIT 2 (MSB) Status		\$26 \$27	. ,	Set Audio at Max Volume on PSG, SCC-I and OPLL (default) Set CMT OFF (default)
	(read only)	BIT		Master Mute	BIT 0 (LSB)		\$28		Set CMT ON
\$46	(read / write_n)	BIT		OPLL Volume	BIT 0 (LSB)		\$29	\ <i>,</i>	Lock Turbo Toggles
		BIT	2		BIT 2 (MSB)		\$2A	(042)	Unlock Turbo Toggles
	(read only)	BIT		OPLL Mute	Status		\$2B \$2C	` '	Lock Display Toggles Unlock Display Toggles
	(read / write_n)	BIT BIT		SCC-I Volume	BIT 0 (LSB) BIT 1		\$2C \$2D	, ,	Lock Audio Mixer & CMT Toggles
		BIT			BIT 2 (MSB)		\$2E	(046)	Unlock Audio Mixer & CMT Toggles
	(read only)	BIT		SCC-I Mute	Status		\$2F		Lock Slot-1 Toggles
\$47	(read only)	BIT		CPU Custom Speed	BIT 0 (LSB) BIT 1		\$30 \$31	, ,	Unlock Slot-1 Toggles Lock Slot-2 Toggles
		BIT		'	BIT 2 (MSB)		\$32	(050)	Unlock Slot-2 Toggles
		BIT		Turbo MegaSD (tMSD)	Status		\$33		Lock Slot-1 & Slot-2 Toggles
		BIT		Turbo Pana Redirection (tPR) VDP Speed Mode	Status Status		\$34 \$35	` '	Unlock Slot-1 & Slot-2 Toggles Lock Hard Reset Key
		BIT		Next Mapper	Status		\$36	(054)	Unlock Hard Reset Key
		BIT		Next MegaSD	Status		\$37		Lock Mapper Toggle
	(read only)	BIT		Red Turbo (tPANA)* Keyboard Layout	Status Status		\$38 \$39	• • • • • • • • • • • • • • • • • • • •	Unlock Mapper Toggle Lock MegaSD Toggle
		BIT		CMT	Status		\$3A		Unlock MegaSD Toggle
\$48		BIT		Lights Mode	0=Auto, 1=ON		\$3B	, ,	Lock All Toggles
		BIT		Red Mode Last Reset Flag	Red LED Status 0=Cold, 1=Warm		\$3C \$3D	` '	Unlock All Toggles (default) Pseudo-Stereo OFF (default)
		BIT		Reset Required Flag	Status		\$3D \$3E		Pseudo-Stereo ON
		BIT	7	MegaSD Blink	Status		\$3F		Asynchronous tPANA OFF (default)
\$49	(read only)	BIT		Pseudo-Stereo	Status		\$40	(064)	Asynchronous tPANA ON (external slots 3.58MHz)
		BIT BIT					 \$80	(128)	Null Command (useful for programming)
		BIT	3					` ´	
		BIT		Null	Free		\$D3	` '	Restore Keyboard to Default Layout
		BIT BIT					\$D4 \$D5	, ,	Null Command (reserved) Restore Turbo to Default Setting
		BIT							
\$4E	(read only)	BIT		Green Turbo	Hard DIP-SW1				
		BIT		Display (MSB) Display (LSB)	Hard DIP-SW2 Hard DIP-SW3		 \$FA		Restore Last Reset Flag to Cold Reset Status
		BIT		Slot-1	Hard DIP-SW4		\$FB		Cold Reset (= Hard Reset)
		BIT		Slot-2 (MSB)	Hard DIP-SW5		\$FC	, ,	Warm Reset w/ Mapper 2048KB
		BIT		Slot-2 (LSB) Mapper	Hard DIP-SW6 Hard DIP-SW7		\$FD \$FE	(/	Warm Reset Warm Reset w/ Mapper 4096KB
		BIT		MegaSD	Hard DIP-SW8		\$FF	· · ·	Restore all Default Settings + Preset Mapper & MegaSD to Default
\$4F	(read only)	BIT		Revision Number	BIT 0 (LSB) BIT 1 BIT 2			(read / write) (read_n / write_n)	0 = OFF
		BIT BIT							Positive Logic
		BIT			BIT 3	R/W	R / \\		1 = ON
		BIT			BIT 4		IV / VV		0 = ON
		BIT			BIT 5 BIT 6 (MSB)				Negative Logic
		BIT		Keyboard Layout	Default Status				1 = OFF
								Turbo	[F12] [SHIFT+PGUP/PGDOWN] [DIP-SW1]
\$4A-\$4D				Free			Display Audio Mixer & CM	[PRNSCR] [SHIFT+PRNSCR] [DIP-SW2] [DIP-SW3] IT [F9/F10/F11] [SHIFT+F9/F10/F11] [PGUP/PGDOWN] [SCRLCK]	
						(**)	Slot-1	[SHIFT+F12] [DIP-SW4]	
	Adv. to FS-A1WX, FS-A1WSX and FS-A1FX specs:						Slot-2	[SHIFT+SCRLCK] [DIP-SW5] [DIP-SW6]	
(*)	http:			S-A1WX, FS-A1WSX and FS-A1FX w.nl/resources/msx_io_ports.p				Hard Reset Mapper	[HARD RESET KEY] [DIP-SW7]
	псер.,	, παμ	_o , au	η τουσαί σου πιυχ_ίο_ροί (δ.ρ				MegaSD	[DIP-SW8]