\$40	(read_n / write)	ID		MSX2+ FS-A1 Series	Z80B 5.37MHz			SMART COMMANDS TABLE
			0	0	OCM-PLD v2.4 or later	\$00	(000)	Null Command (reserved)
	(read_n / write)		2			\$01 \$02	(001)	Set Turbo Pana Redirection OFF (default) Set Turbo Pana Redirection ON
\$41			3	Smart Command ID	CPL or \$FF (Null)	\$03 \$04	(003)	Set Standard Speed 3.58MHz Set Custom Speed 4.10MHz
		BIT	T 5			\$05	(005)	Set Custom Speed 4.48MHz
		BIT				\$06 \$07	(006) (007)	Set Custom Speed 4.90MHz Set Custom Speed 5.39MHz
		BIT BIT	0 1	CPU Clock Video Output (MSB)	Virtual DIP-SW1 Virtual DIP-SW2	\$08 \$09	(008) (009)	Set Custom Speed 6.10MHz Set Custom Speed 6.96MHz
	(read / write_n)	BIT	2	Video Output (LSB)	Virtual DIP-SW3	\$0A	(010)	Set Custom Speed 8.06MHz (aka "Turbo 10MHz") (default)
\$42		BIT	3 4	Cartridge Slot-1 Cartridge Slot-2 (MSB)	Virtual DIP-SW4 Virtual DIP-SW5	\$0B \$0C	(011)	Set Turbo MegaSD OFF Set Turbo MegaSD ON (default)
		BIT	5 6	Cartridge Slot-2 (LSB) Current Mapper Size	Virtual DIP-SW6 Virtual DIP-SW7	\$0D \$0E	(013)	Set External Slot-1 + External Slot-2 Set Internal SCC-I Slot-1 + External Slot-2
		BIT	7	Current MegaSD Mode	Virtual DIP-SW8	\$0F	(015)	Set External Slot-1 + Internal SCC-I Slot-2
440	(read / write_n)	BIT	0	Lock Mak for Toggles	CPU Clock Video Output	\$10 \$11	(016)	Set Internal SCC-I Slot-1 + Internal SCC-I Slot-2 Set External Slot-1 + Internal ASCII-8K Slot-2
		BIT	2		Audio Mixer & CMT	\$12 \$13	(018)	Set Internal SCC-I Slot-1 + Internal ASCII-8K Slot-2 Set External Slot-1 + Internal ASCII-16K Slot-2
\$43		BIT	3 4		Cartridge Slot-1 Cartridge Slot-2	\$14	(020)	Set Internal SCC-I Slot-1 + Internal ASCII-16K Slot-2
		BIT	6		Hard Reset Key Internal Mapper	\$15 \$16	(021)	Set Japanese Keyboard Layout Set Non-Japanese Keyboard Layout
\$44		BIT	7		Internal MegaSD	\$17	(023)	Set Display Mode 15KHz Composite/S-Video Set Display Mode 15KHz RGB w/ Audio Out (requires a VGA to SCART cable)
	(read / write_n)	BIT	0	Lights I/O	Led 1 Status Led 2 Status	\$18 \$19	(024) (025)	Set Display Mode 31Khz VGA for LED TV or LED Display (50Hz+60Hz)
			3		Led 3 Status Led 4 Status	\$1A \$1B	(026) (027)	Set Display Mode 31Khz VGA+ for CRT Monitor (legacy output) (50Hz+60Hz) Set VDP Speed Normal Mode (default)
		BIT	4 5		Led 5 Status Led 6 Status	\$1C \$1D	(028)	Set VDP Speed Fast Mode (V9958 only) Reserve MegaSD OFF (warm reset to set)
		BIT	6		Led 7 Status	\$1E	(030)	Reserve MegaSD ON (warm reset to set)
		BIT	7		Led 8 Status BIT 0 (LSB)	\$1F \$20	(031)	Set MegaSD Blink OFF Set MegaSD Blink ON (default)
\$45	(read / write_n)	BIT	1	PSG Volume Level	BIT 1	\$21	(033)	Set Lights Mode OFF w/ Auto LEDs Control (default)
	(read only)	BIT	3	PSG Mute	BIT 2 (MSB) Status	\$22 \$23	(034)	Set Lights Mode ON + Red Led OFF Set Lights Mode ON + Red Led ON
	(read / write_n)		5	Master Volume Level	BIT 0 (LSB) BIT 1	\$24 \$25	(036) (037)	Internal Audio Preset #1 "Mute Sound" Internal Audio Preset #2 "Middle Sound"
		BIT	6		BIT 2 (MSB)	\$26	(038)	Internal Audio Preset #3 "High Sound" (default)
	(read only)	BIT	0	Master Mute	Status BIT 0 (LSB)	\$27 \$28	(039)	Set CMT OFF (default) (disabled w/ MSX turbo-R BIOS) Set CMT ON (requires a cassette recorder) (disabled w/ MSX turbo-R BIOS)
\$46	(read / write_n)		1	OPLL Volume Level	BIT 1 BIT 2 (MSB)	\$29 \$2A	(041)	Lock Turbo Toggles Unlock Turbo Toggles
	(read only)	BIT	3	OPLL Mute	Status	\$2B	(043)	Lock Display Toggles
	(read / write_n)		5	SCC-I Volume Level	BIT 0 (LSB) BIT 1	\$2C \$2D	(044) (045)	Unlock Display Toggles Lock Audio Mixer & CMT Toggles
	(read only)	BIT	6 7	SCC-I Mute	BIT 2 (MSB) Status	\$2E \$2F	(046) (047)	Unlock Audio Mixer & CMT Toggles Lock Slot-1 Toggles
\$47	(read only)	BIT	0		BIT 0 (LSB)	\$30	(048)	Unlock Slot-1 Toggles
			2	CPU Custom Speed Level	BIT 1 BIT 2 (MSB)	\$31 \$32	(049) (050)	Lock Slot-2 Toggles Unlock Slot-2 Toggles
			3	Turbo MegaSD (tMSD) Turbo Pana Redirection (tPR)	Status Status	\$33 \$34	(051) (052)	Lock Slot-1 & Slot-2 Toggles Unlock Slot-1 & Slot-2 Toggles
		BIT	5	VDP Speed Mode	0=Normal, 1=Fast	\$35	(053)	Lock Hard Reset Key
			6 7	Next Mapper Size Next MegaSD Mode	0=2048kB, 1=4096kB Status	\$36 \$37	(054) (055)	Unlock Hard Reset Key Lock Mapper Toggle
\$48	(read only)	BIT	0	Turbo Pana Current Keyboard Layout	Status 0=JP, 1=Non-JP	\$38 \$39	(056) (057)	Unlock Mapper Toggle Lock MegaSD Toggle
		BIT	2	CMT (Cassette Magnetic Tape)	Status	\$3A	(058)	Unlock MegaSD Toggle
		BIT	3 4	Lights Mode Red Mode (Led 0)	0=Auto, 1=ON Status	\$3B \$3C	(059) (060)	Lock All Toggles Unlock All Toggles (default)
			5	Last Reset Flag Reset Required Flag	0=Cold, 1=Warm Status	\$3D \$3E	(061) (062)	Set Pseudo-Stereo OFF (default) Set Pseudo-Stereo ON (requires an external sound cartridge)
		BIT	7	MegaSD Blink	Status	\$3F	(063)	Sync External Bus Clock to CPU Speed (default)
	(read only)	BIT	0	Pseudo Stereo External Clock Mode	Status 0=Sync to CPU, 1=3.58Mhz	\$40 \$41	(064) (065)	Set External Bus Clock 3.58MHz Set Turbo Pana 5.37MHz
		BIT		Machine Type ID	BIT 0 (LSB) BIT 1	\$42 \$43	(066) (067)	Set Right Inverse Audio OFF (default) Set Right Inverse Audio ON
\$49			4	(0=1chipMSX, 1=Zemmix Neo,)	BIT 2 BIT 3 (MSB)	\$44 \$45	(068)	Internal Audio Preset #4 "Emphasis PSG Sound" Internal Audio Preset #5 "Emphasis SCC-I Sound"
		BIT	6	NTSC/PAL Type	0=Forced, 1=Auto	\$46	(070)	Internal Audio Preset #6 "Emphasis OPLL Sound"
		BIT	7	Forced Video Mode Right Inverse Audio	0=60Hz (NTSC), 1=50Hz (PAL) Status	\$47 \$4F \$7F	(071 079) (127)	Vertical Offset 16 (useful for Ark-A-Noah) 19 (default) 24 (useful for Space Manbow) Pixel Ratio 1:1 for LED Display (default is 0) (range 0-7) (60Hz only)
		BIT	1	Pixel Ratio 1:1 for LED Display	BIT 0 (LSB)	\$80	(128)	Null Command (useful for programming) Assign Legacy Output to VGA
\$4A	(read only)		3	• •	BIT 1 BIT 2 (MSB)	\$81 \$82	(129) (130)	Assign Legacy Output to VGA+ (default)
		BIT	4 5	Centering YJK Modes/R25 Mask Assignment of Legacy Output	Status 0=To VGA, 1=To VGA+	\$B0 \$B7 \$B8 \$BF	(176 183) (184 191)	Set Master Volume 0 7 (default level is 7) Set PSG Volume 0 7 (default level is 4)
			6 7	Free	%00 (Empty)	\$C0 \$C7 \$C8 \$CF	(192 199) (200 207)	Set SCC-I Volume 0 7 (default level is 4) Set OPLL Volume 0 7 (default level is 4)
		BIT	0			\$D0	(208)	Force NTSC Mode
	(read only)	BIT	2			\$D1 \$D2	(209) (210)	Standard NTSC/PAL Mode (bound by Control Register 9) (default) Force PAL Mode
\$4B		BIT	3	Free	\$FF (Null)	\$D3 \$D4	(211)	Restore Default Keyboard Layout only Null Command (reserved)
		BIT	5			\$D5	(213)	Restore Default Turbo Mode only
			6 7			\$D6 \$D7	(214) (215)	Set Centering YJK Modes/R25 Mask OFF (default) Set Centering YJK Modes/R25 Mask ON
\$4C	(read only)	BIT	0	CPU Clock Video Output (MSB)	Hard DIP-SW1 Hard DIP-SW2	 \$F9	 (249)	Reserve Slot-0 Primary Mode (warm reset to set) (internal OPLL disabled)
		BIT	2	Video Output (LSB)	Hard DIP-SW3	\$FA	(250)	Reserve System Logo ON (warm reset only)
			3 4	Cartridge Slot-1 Cartridge Slot-2 (MSB)	Hard DIP-SW4 Hard DIP-SW5	\$FB \$FC	(251) (252)	Cold Reset Warm Reset w/ Mapper 2048kB
			5 6	Cartridge Slot-2 (LSB) Internal Mapper	Hard DIP-SW6 Hard DIP-SW7	\$FD \$FE	(253) (254)	Warm Reset Warm Reset w/ Mapper 4096kB
		BIT	7	Internal MegaSD	Hard DIP-SW8	\$FF	(255)	Restore All Default + Reserve Default Mapper & MegaSD
\$4D	(read / write_n)	BIT	0	64kB VRAM Slot ID (Boss O)	BIT 0 (LSB) BIT 1			I/O Reserved to IPL-ROM
			2	64kB VRAM Slot ID (Page 0)	BIT 2 BIT 3 (MSB)			BIT 0 - 6 Free \$FF (Null)
		BIT	4		BIT 0 (LSB)	\$4E	(write_n only)	BIT 7 JIS2 Enabler 0=JIS1+JIS2, 1=JIS1 only
			5 6	64kB VRAM Slot ID (Page 1)	BIT 1 BIT 2	\$4F	(write_n only)	BIT 0 - 6 Free \$FF (Null) BIT 7 F4 Device Mode 0=Normal, 1=Inverted
\$4E	(read only)		7	OCM-PLD main version X.Y(.z) (range 0.0.z - 25.5.z)	BIT 3 (MSB) BIT 0 (LSB)			
		BIT	1		BIT 1		More info at MSX As	ssembly Page! < http://map.grauw.nl/resources/msx_io_ports.php#switch_io >
			2		BIT 2 BIT 3		Positive	0 = OFF (read / write)
		BIT	4		BIT 4 BIT 5	R/W Logic		1 = ON (read / Write)
		BIT	6		BIT 6		Negative	0 = ON (read_n/write_n) 1 = OFF
		BIT	7	I/O Revision ID (0 - 31) OCM-PLD sub version (x.y).Z (range x.y.0 - x.y.3)	BIT 7 (MSB) BIT 0 (LSB)		CPU Clock	[F12] or [DIP-SW1]
		BIT	1 2		BIT 1 BIT 2		Video Output Audio Mixer & C	t [(SHIFT+)PRNSCR] or [DIP-SW2/3]
\$4F	(read only)	BIT	3		BIT 3	Toggles	Cartridge Slot-	1 [SHIFT+F12] or [DIP-SW4]
	(3222 2111)	BIT	5		BIT 4 (MSB) BIT 0 (LSB)		Cartridge Slot- System Reset	[HARD RESET KEY] Fast or Long-Click (normal or full reboot)
		BIT	6		BIT 1 (MSB) Status		Internal Mappe Internal Megas	er [DIP-SW7] only
				,				