		SMART COMMANDS TABLE			
\$00 \$01	(000) (001)	Null Command \$00 (reserved) (default/break code for IGX smart profile) Set Turbo Pana Redirection OFF (default)			
\$02 \$03	(002)	Set Turbo Pana Redirection ON Set Standard Speed 3.58MHz			
\$04 \$05	(004)	Set Custom Speed 4.10MHz			
\$06 \$07	(006)	Set Custom Speed 4.48MHz Set Custom Speed 4.90MHz			
\$08	(007)	Set Custom Speed 5.39MHz Set Custom Speed 6.10MHz			
\$09 \$0A	(009) (010)	Set Custom Speed 6.96MHz Set Custom Speed 8.06MHz (aka "Turbo 10MHz") (default)			
\$0B \$0C	(011) (012)	Set Turbo MegaSD OFF Set Turbo MegaSD ON (default)			
\$0D \$0E	(013) (014)	Set External Slot-1 + External Slot-2 Set Internal SCC-I Slot-1 + External Slot-2			
\$0F \$10	(015)	Set External Slot-1 + Internal SCC-I Slot-2 Set Internal SCC-I Slot-1 + Internal SCC-I Slot-2			
\$11 \$12	(017)	Set External Slot-1 + Internal ASCII-8K Slot-2 Set Internal SCC-I Slot-1 + Internal ASCII-8K Slot-2			
\$13 \$14	(019)	Set External Slot-1 + Internal ASCII-16K Slot-2 Set Internal SCC-I Slot-1 + Internal ASCII-16K Slot-2			
\$15 \$16	(021)	Set Japanese Keyboard Layout Set Non-Japanese Keyboard Layout			
\$17 \$18	(023)	Set Display Mode 15KHz Composite/S-Video			
\$19 \$1A	(025)	Set Display Mode 15KHz RGB w/ Audio Out Set Display Mode 31KHz VGA for LED TV or LED Display also HDMI AV on Set Display Mode 31KHz VGA for LED TV or LED Display also HDMI AV on Set Display Mode 31KHz VGA for CBT Monitor (Jenses extens)			
\$1B	(027)	Set Display Mode 31KHz VGA+ for CRT Monitor (legacy output) also HDMI AV on SN Set VDP Speed Normal Mode (default)			
\$1C \$1D	(028)	Set VDP Speed Fast Mode (V9958 only) Reserve MegaSD OFF (warm reset to go)			
\$1E \$1F	(030) (031)	Reserve MegaSD ON (warm reset to go) Set MegaSD Blink OFF			
\$20 \$21	(032)	Set MegaSD Blink ON (default) Set Lights Mode OFF w/ Auto LEDs Control (default)			
\$22 \$23	(034)	Set Lights Mode ON + Red Led OFF Set Lights Mode ON + Red Led ON			
\$24 \$25	(036)	Internal Audio Preset #1 "Mute Sound" Internal Audio Preset #2 "Middle Sound"			
\$26 \$27	(038)	Internal Audio Preset #3 "High Sound" (default) Set CMT OFF (default) (disabled w/ MSXtR BIOS) n/a on SM-X / SX-2 / SX			
\$28 \$29	(040)	Set CMT ON (needs a cassette recorder) (disabled w/ MSXtR BIOS) n/a on SM-X / SX-2 / SX Lock CPU Clock Toggles			
\$2A \$2B	(042)	Unlock CPU Clock Toggles Lock Video Output Toggles			
\$2C \$2D	(044)	Unlock Video Output Toggles Lock Audio Mixer & SCRIK Toggles			
\$2E \$2F	(046)	Unlock Audio Mixer & SCRLK Toggles Lock Slot-1 Toggles			
\$30	(048)	Unlock Slot-1 Toggles			
\$31 \$32	( 049 ) ( 050 )	Lock Slot-2 Toggles Unlock Slot-2 Toggles			
\$33 \$34	(051)	Lock Slot-1 & Slot-2 Toggles Unlock Slot-1 & Slot-2 Toggles			
\$35 \$36	(053)	Lock System Reset (Reset Combos & Hard Reset Key) Unlock System Reset (Reset Combos & Hard Reset Key)			
\$37 \$38	(055)	Lock Internal Mapper Toggle Unlock Internal Mapper Toggle			
\$39 \$3A	(057) (058)	Lock Internal MegaSD Toggle Unlock Internal MegaSD Toggle			
\$3B \$3C	(059)	Lock All Toggles Unlock All Toggles (default)			
\$3D \$3E	(061) (062)	Set Pseudo-Stereo OFF (default) Set Pseudo-Stereo ON (needs an external sound cartridge)			
\$3F \$40	(063)	Sync External Bus Clock to CPU Speed (default) Set External Bus Clock 3.58MHz			
\$41 \$42	(065) (066)	Set Turbo Pana 5.37MHz Set Right Inverse Audio OFF (default)			
\$43 \$44	(067)	Set Right Inverse Audio ON Internal Audio Preset #4 "Emphasis PSG Sound"			
\$45 \$46	(069)	Internal Audio Preset #5 "Emphasis SCC-I Sound" Internal Audio Preset #6 "Emphasis OPLL Sound"			
\$47	(071)	Vertical Offset 16 (useful for Ark-A-Noah) Vertical Offset 17			
\$48 \$49	(072)	Vertical Offset 18			
\$4A \$4B	(074)	Vertical Offset 19 (default) Vertical Offset 20			
\$4C \$4D	(076)	Vertical Offset 21 Vertical Offset 22			
\$4E \$4F	( 078 ) ( 079 )	Vertical Offset 23 Vertical Offset 24 (useful for Space Manbow)			
\$50 \$51	(080)	Set VGA Scanlines None (default) 0% low-scale, 0% high-sca Set VGA Scanlines Light 12% low-scale, 25% high-sca			
\$52 \$53	(082)	Set VGA Scanlines Medium 25% low-scale, 50% high-sca Set VGA Scanlines Heavy 50% low-scale, 75% high-sca			
\$54 \$55	(084)	Set Internal PSG2 OFF (default) only for SM-X / SX-2 / SX Set Internal PSG2 ON (this second PSG acts as an external PSG) only for SM-X / SX-2 / SX only for SM-X / SX-2 / SX			
\$56 \$57	(086)	Reserve Extra-Mapper 4096 KB OFF (default) Reserve Extra-Mapper 4096 KB ON (only available if SDRAM > 8 MB)			
\$58 \$59	(088) (089)	Set Extended MegaROM Reading OFF (default for compatibility) Set Extended MegaROM Reading ON (ASCII-8K/16K max size playable)			
\$5A \$5B	(090)	Set Sprite Limit 4/8 (standard mode) (default) Set Sprite Limit 8/8 (force MSX1 screens to use 8 sprites per line)			
\$5C \$5D	(092)	Set VGA Interlace Single Field (not affected by scanlines) (default) Set VGA Interlace Duplicate Field			
\$7E \$7F	(126) (127)	Reserve System Logo ON (warm reset only) [No effect via IPL-RÖM] old I/O specs had \$FA ( 250 Pixel Ratio 1:1 for LED Display (default is 0) (range 0 - 7) (60Hz only)			
\$80 \$81	(128) (129)	Null Command \$80 (reserved) (useful for programming) Assign Legacy Output to VGA			
\$82	(130) (131)	Assign Legacy Output to VGA+ (default) Set Internal Slot-1 Linear OFF (default)			
\$83 \$84 \$85	(132)	Set Internal Slot-1 Linear OFF (pedralif) Set Internal Slot-2 Linear OF (pedralif) Set Internal Slot-2 Linear OFF (default)			
\$85 \$86	(133) (134)	Set Internal Slot-2 Linear ON (requires SCC-I or ASCII-8K/16K preset)			
\$87	(135)	Set Internal OPL3 OFF (default)         only for SM-X / SX-2 / SX           Set Internal OPL3 ON         only for SM-X / SX-2 / SX           ONLY OFF (MINERAL OF SM-X / SX-2 / SX         SX-2 / SX			
\$89 \$8A	(137) (138)	Set F2 Device OFF (allows I/O access to PlaySoniq and other cartridges) Set F2 Device ON (essential to execute ESP8266 BIOS) (default)			
\$8B \$8F \$B0 \$B7	(139 143) (176 183)	Reserved (Ducasp) only for SM-X / SX-2 / SX Set Master Volume 0 7 (default level is 7)			
\$B8 \$BF \$C0 \$C7	(184 191)	Set PSG Volume 0 7 (default level is 4) Set SCC-I Volume 0 7 (default level is 4)			
\$C8 \$CF \$D0	(200 207)	Set OPLL Volume 0 7 (default level is 4) Force NTSC Mode			
\$D1 \$D2	(209) (210)	Standard NTSC/PAL Mode (bound by Control Register 9) (default) Force PAL Mode			
\$D3 \$D4	(211) (212)	Restore Default Keyboard Layout Null Command \$D4 (reserved) + Set C-BIOS Mode ON [Reserved for IPL-ROM]			
\$D5 \$D6	(213) (214)	Restore Default Turbo Modes Set Centering YJK Modes/R25 Mask OFF (default)			
\$D7 \$F8	(215)	Set Centering VIK Modes/R25 Mask On Vertically Set Centering VIK Modes/R25 Mask ON Reserve OCM-BIOS Reloading (cold reset or warm reset to go)			
\$F9 \$FA	(249) (250)	RESERVE SICH-BILDS Reloading (cold reset or warm reset to go) RESERVE SIOt-O Primary Mode (warm reset to go) (internal OPLL disabled) RESERVE SIOt-O Expanded Mode (warm reset to go) (default)			
\$FB \$FC	(251)	Cold Reset [No effect via IPL-ROM]  Warm Reset w/ Mapper 2048 KB (RAM size 6144 KB if Extra-Mapper is ON) [Only set Mapper via IPL-ROM]			
\$FD \$FE	(253) (254)	Warm Reset [No effect via IPL-ROM] Warm Reset w/ Mapper 4096 KB (RAM size 8192 KB if Extra-Mapper is ON) [Only set Mapper via IPL-ROM]			
\$FF	(255)	Restore All Defaults + Reserve Default Mapper & MegaSD			
More info on Switched I/O ports at MSX Assembly Page! < http://map.grauw.nl/resources/msx_io_ports.php#switch_io >					
	Positive	0 = OFF (read / write )			
R/W Logic		1 = ON (1880) WINE)			
	Negative	1 = OFF (read_n/write_n)			

Positive	0 = OFF	( read / write )		
	1 = ON	(*****)		
Negative	0 = ON	(read n/write n)		
Negative	1 = OFF	(Tead_IT/ WIRE_IT/		
CPU Clock	[F12] or	[DIP-SW1]		
Video Output	[(SHIFT+	-)PRTSCR] or [DIP-SW2/3]	SCRLK key could handle	
Audio Mixer & SCRLK	[(SHIFT+	-)PGUP/PGDOWN/F9/F10/F11] & [SCRLK]	CMT or OPL3 depending	
Cartridge Slot-1	[SHIFT+	F12] or [DIP-SW4]	on the type of machine	
Cartridge Slot-2	[SHIFT+	SCRLK] or [DIP-SW5/6]		
System Reset	[LCTRL+	[LCTRL+(SHIFT+)F12] Cold or Full Reset + [HARD RESET KEY] Short or Long-Click		
Internal Mapper	[DIP-SW	/7] only		
Internal MegaSD	[DIP-SW	/8] only		
	Video Output Audio Mixer & SCRLK Cartridge Slot-1 Cartridge Slot-2 System Reset Internal Mapper	Positive	Negative	