



# DIP-SW User Manual

for SM-X, SX-2 and related (Cyclone IV-E series)

OCM-PLD Pack v3.9.2 by KdL

DIP-SW	FUNCTION	STATUS	DESCRIPTION
1	CPU Clock	OFF	Standard mode 3.58MHz
		ON	Custom Speed mode 4.10MHz to 8.06MHz (10.74MHz on system bus) <ul style="list-style-type: none"> <li>Press [F12] key to change clock type (3.58MHz &gt;&gt; 5.37MHz &gt;&gt; Custom Speed)</li> <li>The external clock is set on [Sync to CPU] by default</li> <li>[Turbo Pana] is 5.37MHz like the original specification</li> <li>A special hybrid clock [Turbo MegaSD] is enabled by default</li> </ul>
2 / 3	Video Output	OFF / OFF	Composite / S-Video (through the VGA connector) <ul style="list-style-type: none"> <li>15kHz, 50Hz+60Hz, interlaced video signal</li> </ul>
		OFF / ON	RGB w/ Audio Out (a mono signal inside the video cable) <ul style="list-style-type: none"> <li>15kHz, 50Hz+60Hz, interlaced video signal, requires a VGA to SCART cable</li> </ul>
		ON / OFF	VGA Mode for LED TV or LED Display / Optional HDMI AV <ul style="list-style-type: none"> <li>Progressive video signal 31kHz / 50Hz+60Hz with the ability to set the pixel ratio 1:1 at 60Hz</li> </ul>
		ON / ON	VGA+ Mode for CRT Monitor / Optional HDMI AV (legacy output) <ul style="list-style-type: none"> <li>Progressive video signal 31kHz / 50Hz+60Hz / SETSMART -D0 must be executed to force 60Hz</li> </ul>
4	Cartridge Slot-1 and Optional Slot-3	OFF	External Slot-1 / Optional Slot-3 (shared) <ul style="list-style-type: none"> <li>Advised like default</li> </ul>
		ON	Internal ESE-MegaSCC+ 2048 KB (full R/W) (also used to load the ASCII-16K high part) <ul style="list-style-type: none"> <li>External Slot-1 / Optional Slot-3 are disabled</li> <li>Memo: the internal OPL3 toggle is [Scroll Lock] key (disabled by default)</li> <li>OPL3 is also managed via SETSMART -87 (Off) and SETSMART -88 (On)</li> </ul>
5 / 6	Cartridge Slot-2	OFF / OFF	External Slot-2 <ul style="list-style-type: none"> <li>Advised like default</li> </ul>
		OFF / ON	Internal ESE-MegaRAM ASCII-8K 2048 KB (1024 KB R/W + 1024 KB R/-) <ul style="list-style-type: none"> <li>External Slot-2 is disabled</li> </ul>
		ON / OFF	Internal ESE-MegaSCC+ 2048 KB (full R/W) (also used to load the ASCII-8K high part) <ul style="list-style-type: none"> <li>External Slot-2 is disabled</li> </ul>
		ON / ON	Internal ESE-MegaRAM ASCII-16K 4096 KB (2048 KB R/W + 2048 KB R/-) <ul style="list-style-type: none"> <li>External Slot-2 is disabled</li> </ul>
7	Internal Mapper and Options	OFF	2048 KB Mapped RAM / 1st EPBIOS <ul style="list-style-type: none"> <li>Advised like default</li> </ul>
		ON	4096 KB Mapped RAM / Optional 2nd EPBIOS
8	Internal MegaSD	OFF	Disabled
		ON	Enabled <ul style="list-style-type: none"> <li>Advised like default</li> </ul>