3

Video Unit and RAMDAC

The video unit and RAMDAC should be configured to display the framebuffer data with the format, resolution, and refresh frequency required.

3.1   Display Timing Values

Table 3-1   Timing Values for 640x480 16 BPP 75Hz

Parameter	Hex	Decimal
HTotal	0x065	101
HsStart	0x003	3
HsEnd	0x00B	11
HbEnd	0x016	22
HgEnd	0x016	22
VTotal	0x1F5	501
VsStart	0x000	0
VsEnd	0x003	3
VbEnd	0x016	22
ScreenStride	0x050	80
ScreenBase	0x000	0
VideoControl	0x029	41

Table 3-2   Timing Values for 800x600 32 BPP 75Hz

Parameter	Hex	Decimal
HTotal	0x103	259
HsStart	0x00A	10
HsEnd	0x01E	30
HbEnd	0x03C	60

Parameter	Hex	Decimal
HgEnd	0x03C	60
VTotal	0x272	626
VsStart	0x000	0
VsEnd	0x003	3
VbEnd	0x01B	27
ScreenStride	0x0C8	200
ScreenBase	0x000	0
VideoControl	0x029	41