ImageWriter

I2C Driver Parameter Module

ImageWriter Supports a configurable I2C driver for devices that use the I2C interface. In certain circumstances you may wish to modify the parameters, especially the clock-frequency, to enhance system throughput or improve compatibility. Driver parameters are always reset and initialized to defaults when you select the Manufacuter:Device via a CIL command or in Terminal Mode.

If your device selection contains a p_I2C device object, you may load(examine) or program these parameters to non-default values. After programming new values, a load operation may return different values depending on driver capability (for example, the clock speed may be set slower than the programmed requested speed). The mapping of the p_I2C object is detailed below.

You should not modify I2C driver parameters from their defaults without due reason and understanding of the target devices programming specifications. Modification of parameters may cause indeterministic algorithm or system behavior and prevent proper device programming.

Object for p_I2C

Object Name:	*Program / Execute*	*Verify*	*Load*	*Object Size (Bytes)*
p_I2C	●		●	0x08

Object Memory Map:

Byte 0	Byte 1	Byte 2	Byte3
CLK Freq (31:24)	**CLK Freq (23:16)**	**CLK Freq (15:8)**	**CLK Freq (7:0)**
Byte 4	Byte 5	Byte 6	Byte7
I2C Bus Address	**Reserved**	**Reserved**	**Reserved**

CLK Freq is a 32-bit value expressed in Hz.
I2C Bus Address is the active I2C Bus Address on pins A0, A1, A2. Only the 3 LSB Bits of the I2C Bus Address byte are used. The default Bus Address is 0.