MINOS MINDER Card VME Function Addresses 1/20/03

The MINOS MINDER Card is written to or read from through a MINOS TRIGGER-KEEPER Card that resides in the MINDER Crate.
The MINOS TRIGGER-KEEPER Card is accessed through a MINOS MASTER Card that resides in a MASTER Crate.
The MINOS MINDER's Card Address ID (switch SW1) **must** **not** be set to 31. This is reserved for the MINOS TRIGGER-KEEPER Card.
The MASTER Card must be in VME Mode.
The Address Modifier for interactions with the MINDER Crate is 09.
The VME Address that is received by the MASTER Card to interact with the MINDER Card is:

A31 A0
GGGG G000 0000 0001 01NN NNNT TTTT TT00

G = MASTER Card Geographical Address bits
N = MINDER Card Address ID bits (Set by switch SW1)
T = MINDER Card Function Address bits

MINDER Card Hex Address (h) Offset (A8-A2)	Function
h000	WRITE/READ – Card Disable Register (Disable = 1) D0 = Card Disable bit D15-D1 = 0 D31-D16 = Undefined
h004	WRITE/READ – External Source Flasher Trigger Window Delay and Width Register D7-D0 = Window Width (1-255 steps, 19ns/step) D15-D8 = Window Delay (0-255 steps, 19ns/step) D31-D16 = Undefined
h008	WRITE/READ – TCAL Flasher Trigger Window Delay and Width Register D7-D0 = Window Width (1-255 steps, 19ns/step) D15-D8 = Window Delay (0-255 steps, 19ns/step) D31-D16 = Undefined
h00C	READ only – Card ID D10-D0 = Card Serial Number (Hard-wired on the card) D15-D11 = Card Address ID (Set by switch SW1) D31-D16 = Undefined
h01C	WRITE only – Card Clear D31-D0 = No data needed