# noHau

Cut Your Development Time !

EMUL-68HC912D60 Layout
This is the top view looking down on to the target board or on top of the 68HC912D60 personality card.
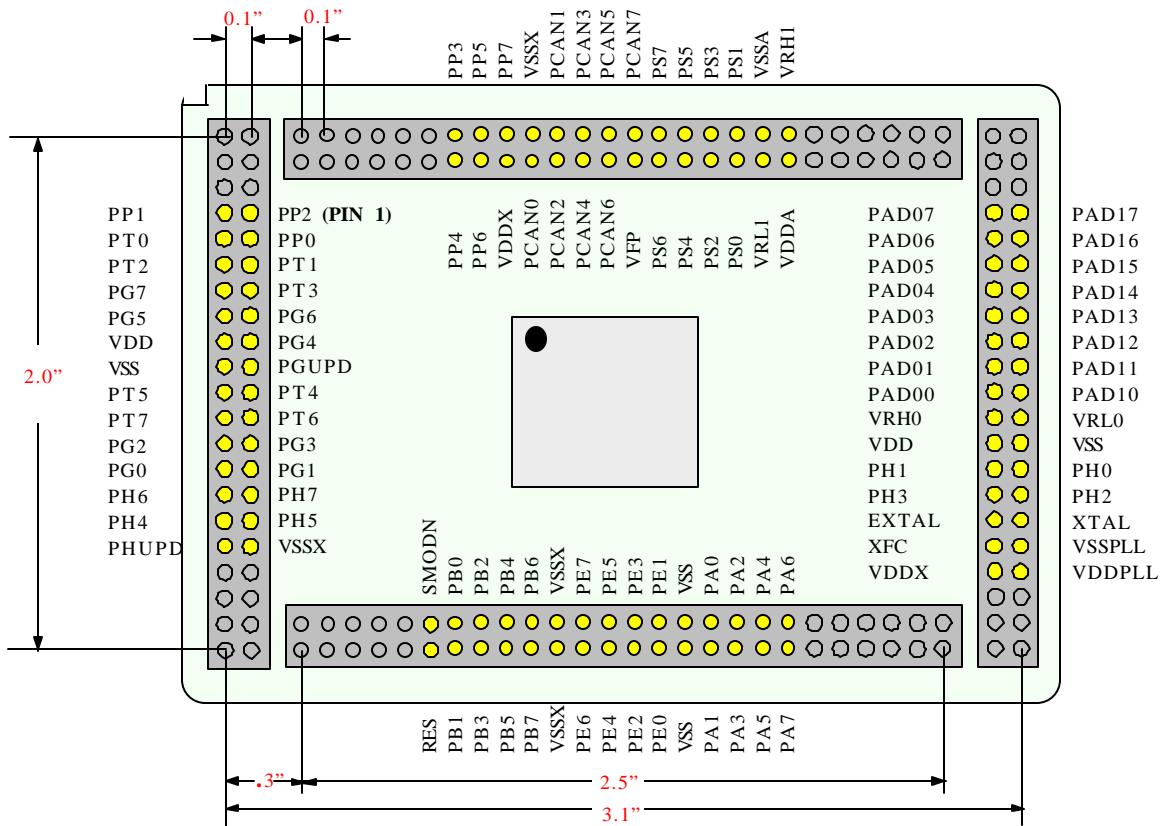
support@nohau.com   (888) 886-6428   www.nohau.com   Campbell, California 95008

Version 2.1
December 17, 2001

Top View - 68HC912D60

1) The grayed out pins are not connected. They are physically located on the bottom of the emulator board but are not used on the personality card. They are for future expansion.

2) The target microcontroller needs to be removed from the target since the HC12 family cannot tri-state.

3) The target adapters do not plug into the top of the emulator, they plug into the bottom side.

Helpful measurements when laying out the board:
On the top side, the emulator expands 0.2".
On the bottom side, the emulator expands 4.3".
On the left side the emulator expands 0.3".
On the right side the emulator expands 0.6".

1

noHau
Cut Your Development Time !

EMUL-68HC912D60 Layout
This is the bottom view looking down onto the bottom of the emulator.
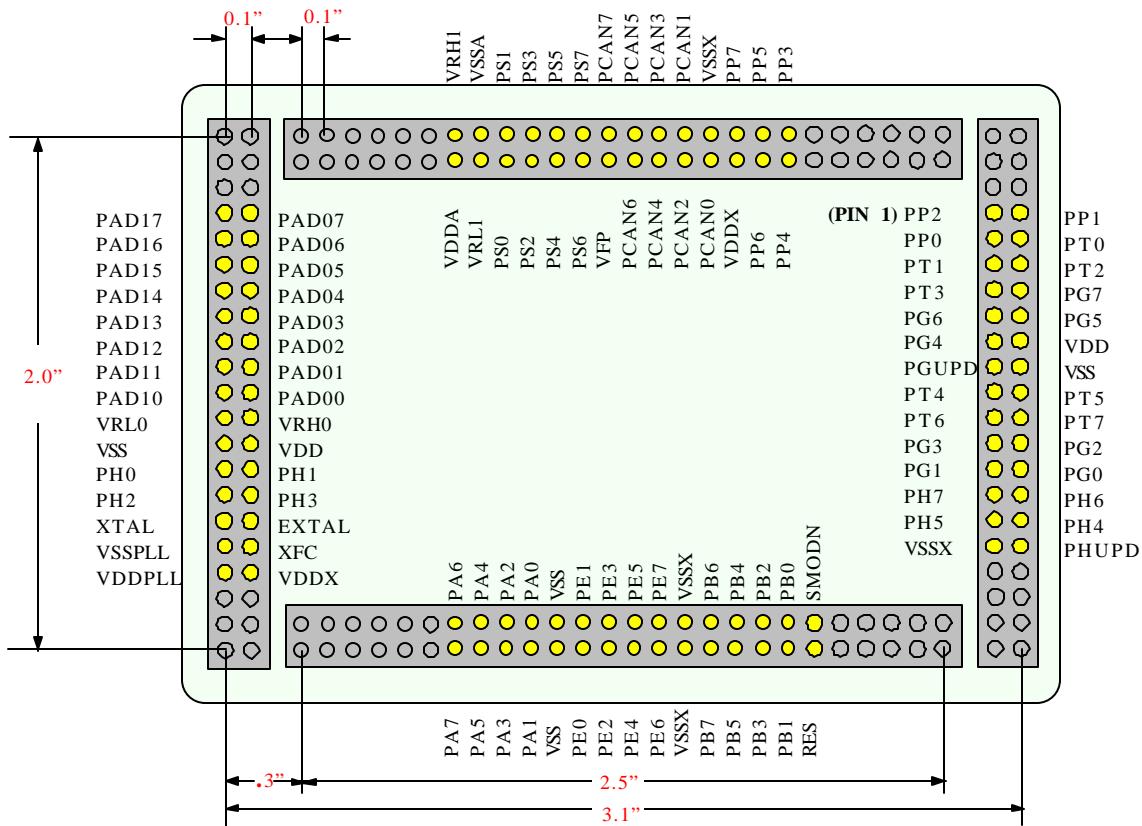
support@nohau.com   (888) 886-6428   www.nohau.com   Campbell, California 95008

Bottom View - 68HC912D60

Version 2.1
December 17, 2001

0.1"   0.1"

VRH1 VSSA PS1 PS3 PS5 PS7 PCAN7 PCAN5 PCAN3 PCAN1 VSSX PP7 PP5 PP3

PAD17
PAD16
PAD15
PAD14
PAD13
PAD12
PAD11
PAD10
VRL0
VSS
PH0
PH2
XTAL
VSSPLL
VDDPLL

PAD07
PAD06
PAD05
PAD04
PAD03
PAD02
PAD01
PAD00
VRH0
VDD
PH1
PH3
EXTAL
XFC
VDDX

2.0"

VDDA VRL1 PS0 PS2 PS4 PS6 VFP PCAN6 PCAN4 PCAN2 PCAN0 VDDX PP6 PP4

(PIN 1) PP2
PP0
PT1
PT3
PG6
PG4
PGUPD
PT4
PT6
PG3
PG1
PH7
PH5
VSSX

PP1
PT0
PT2
PG7
PG5
VDD
VSS
PT5
PT7
PG2
PG0
PH6
PH4
PHUPD

PA6 PA4 PA2 PA0 VSS PE1 PE3 PE5 PE7 VSSX PB6 PB4 PB2 PB0 SMODN

PA7 PA5 PA3 PA1 VSS PE0 PE2 PE4 PE6 VSSX PB7 PB5 PB3 PB1 RES

.3"   2.5"

3.1"

1) The grayed out pins are not connected. They are physically located on the bottom of the emulator board but are not used on the personality card. They are for future expansion.

2) The target microcontroller needs to be removed from the target since the HC12 family cannot tri-state.

3) The target adapters do not plug into the top of the emulator, they plug in on the bottom side.