

IDE to Compact Flash

1. Introduction

The BridgeBoard is a converter for IDE port to CF memory card interface. It has the standard IDE 40 pin (or 44 pin) female connector (or male connector), which can interface to IDE host side, and 50 pin Compact Flash socket in device side for Compact Flash memory card.

This manual supports following Product Model #:

- 1) Model#307: 40Pin Female IDE and 2Pin Power connector to CF slot x1
- 2) Model#308: (40Pin Male IDE and 4Pin Power connector) and 44Pin male IDE to CF slot x1
- 3) Model#307P4: 44Pin Female IDE to CF slot x1
- 4) Model#317: 40Pin Female IDE and 2Pin Power connector to CF slots x2
- 5) Model#317P4: 44Pin Female IDE to CF slots x2

1.1. Features

- Supports 40 pin or 44 pin IDE standard Port
- Support CompactFlash™ cards (Type I & II) or IBM Microdrive™.
- Transparent to the operating system and does not require any drivers.
- The CF card can be the primary booting device containing the OS and application.
- For any computer case, mini computer, embedded system, iPC and Rackmount case.
- Supports jumper for master and slave setting.
- Push bottom ejector on board (Optional on Model#308 only).
- Powered by 4Pin floppy connector or Pin41 & Pin42 of 44 pin IDE Port
- HDD Accessing LED on board

2. Installation

Step 1. Power off the PC

Step 2. Plug the CF card to CF slot

Step 3. Connect Y-type power cable to the Bridge board and PC system Power Supply (Ignore this step when you use 44pin IDE connection which



already have 5V power input from Pin41 and Pin42).

Step 4. Set the jumper to Master mode or Slave mode for 1 CF slot board
Model#307, 307P4: J1 ON = Master, J1 OFF = Slave

Step 5. Insert the board directly to IDE host port (for Model#307, 307P4, 317 and 317P4) or Connect IDE cable to the board and PC system (for Model#308)

Step 6. Power on the PC

******* IDE standard can NOT support hot swapping. When you Plug or remove the CF card, please power off PC system for safety.**

3. 40Pin IDE & 44Pin IDE & CF Signals

Signal	40Pin IDE	44Pin IDE	CF Socket
RESET-	1	1	41
D0	17	17	21
D1	15	15	22
D2	13	13	23
D3	11	11	2
D4	9	9	3
D5	7	7	4
D6	5	5	5
D7	3	3	6
D8	4	4	47
D9	6	6	48
D10	8	8	49
D11	10	10	27
D12	12	12	28
D13	14	14	29
D14	16	16	30
D15	18	18	31
IOR-	25	25	34
IOW-	23	23	35
DMARQ	21	21	43
DMACK-	29	29	44
IORDY	27	27	42
IRQ	31	31	37
A0	35	35	20
A1	33	33	19
A2	36	36	18
IOCS16-	32	32	24
PDIAG-	34	34	46
CSEL	28	28	
CS0-	37	37	7
CS1-	38	38	32

DASP-	39	39	45
+5V		41,42	13,38
GND		43	1,50

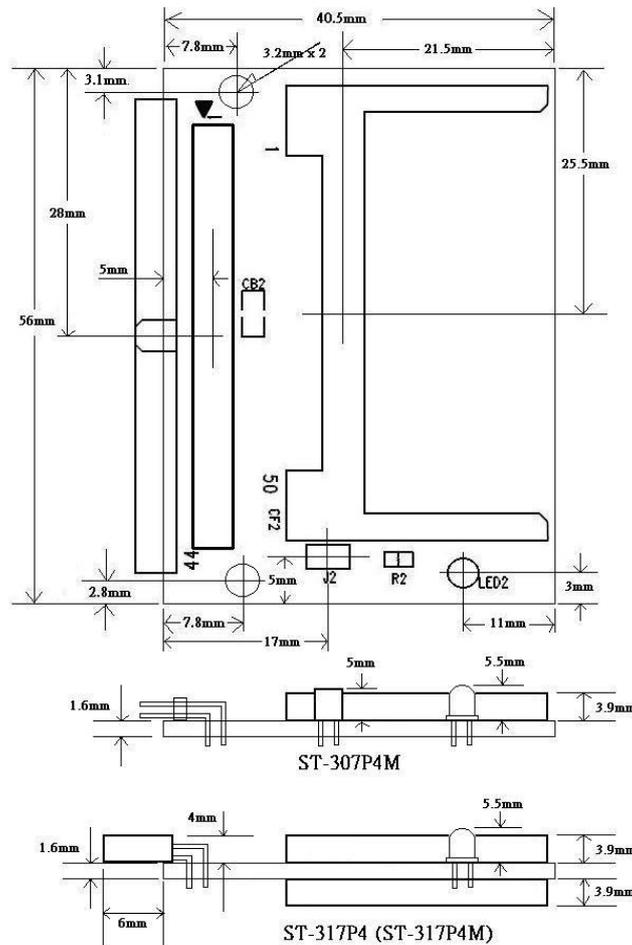
4. Jumper on Model#308

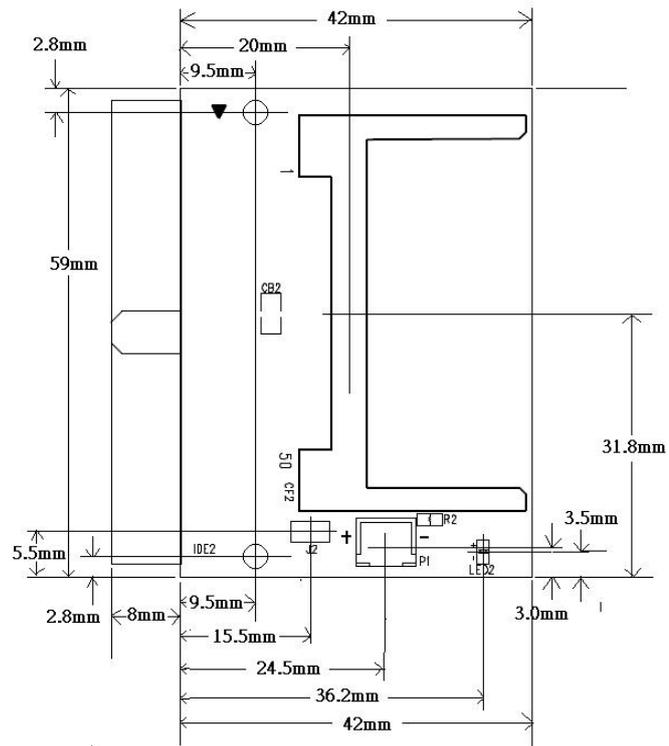
1. "RST" jumper for RST signal connection between IDE connector (Pin 1) & CF socket (Pin 41).
2. "DMA" jumper for DACK connection between IDE connector (Pin 29) & CF socket (Pin 44).

5. Accessing LED

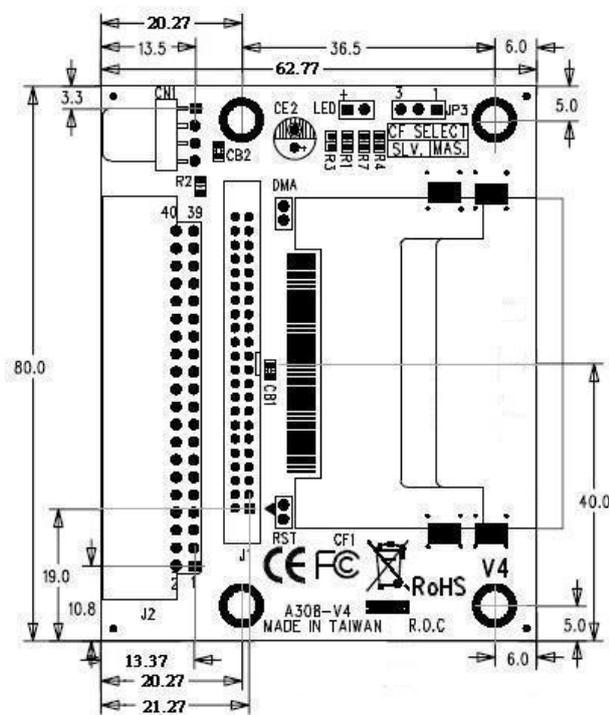
Description	LED
Idle	OFF
Accessing	Flash On

6. Mechanical Dimension





ST-307 Dimension Drawing



ST-308-V4 Dimension Drawing