



INTEGRAL PERIPHERALS, INC.
5775 FLATIRON PARKWAY
BOULDER, COLORADO 80301
303 449.8009 303 449.8089 FAX

May 15, 1992

Mr. Dal Allan
Chairman, Small Form Factor Committee
14426 Black Walnut Court
Saratoga, Ca 95070

Dear Mr. Allan,

Integral Peripherals would like to submit the attached proposal for a 68 pin ATA 1.8 inch disk drive for adoption by the Small Form Factor committee. This include both the physical configuration and the connector pinout.

If you require any further information regarding this proposal, please call me at (303)449-8009. My fax number is (303)449-8089.

Very truly yours,

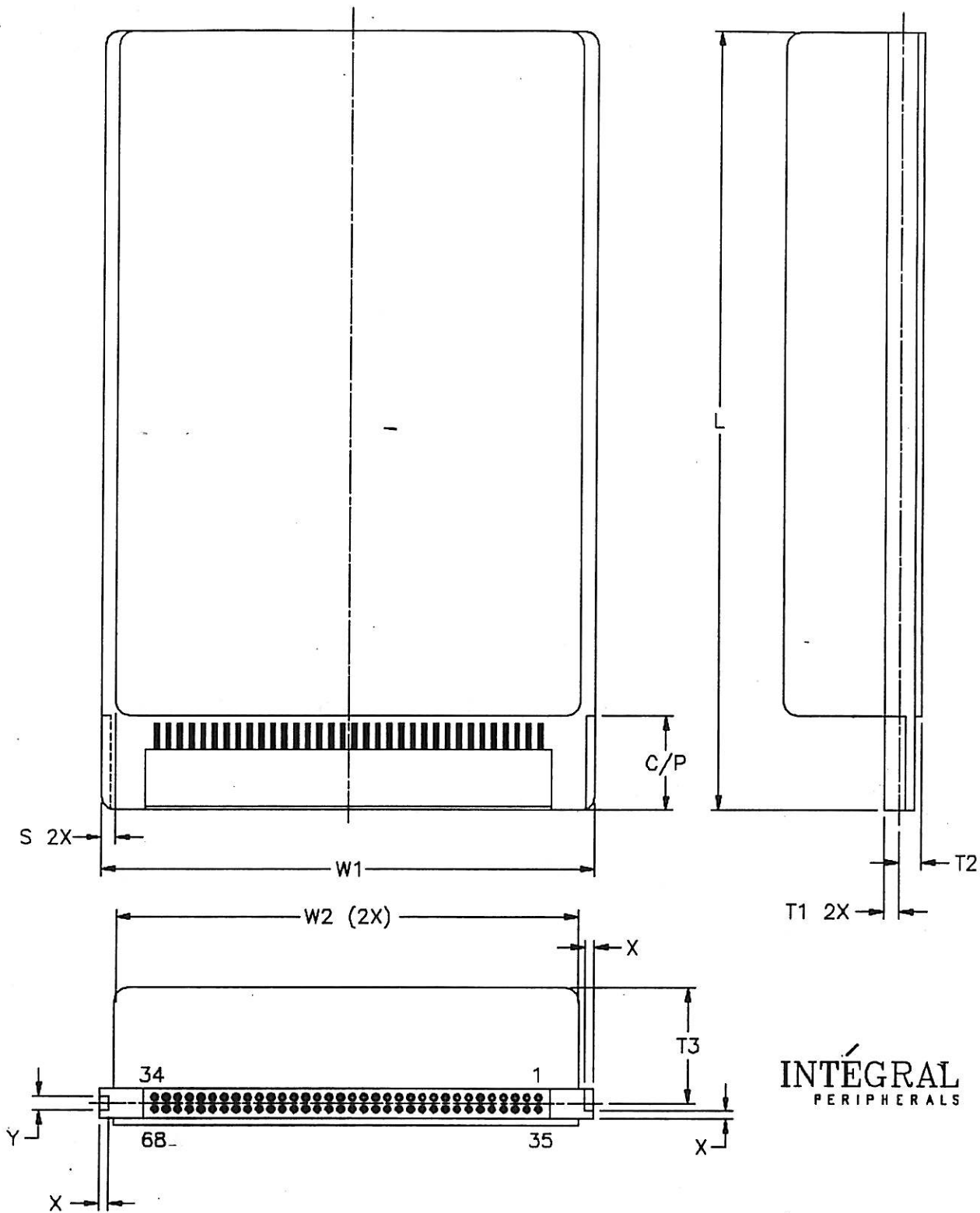
A handwritten signature in cursive script, appearing to read "John H. Blagaila".

John H. Blagaila
VP, Electrical Eng.

INTEGRAL PERIPHERALS 68 PIN IDE PIN OUT

PIN	SIGNAL	I/O	PIN	SIGNAL	I/O
01	GND	I	35	GND	I
02	+DATA 3	I/O	36	GND	O
03	+DATA 4	I/O	37	+DATA 11	I/O
04	+DATA 5	I/O	38	+DATA 12	I/O
05	+DATA 6	I/O	39	+DATA 13	I/O
06	+DATA 7	I/O	40	+DATA 14	I/O
07	-CS0	I	41	+DATA 15	I/O
08			42	-CS1	I
09	-IDE1 **	I	43		
10			44	-IOR	I
11			45	-IOW	I
12			46		
13			47		
14			48		
15	-IDE2 **	I	49		
16	+IRQ	O	50		
17	VCC	I	51	VCC	I
18			52		
19			53		
20			54		
21			55	+MST/-SLV	I
22			56		
23			57	RESERVED *	
24			58	-RESET	I
25			59	+IOCHRDY	O
26			60		
27	+ADDR 2	I	61		
28	+ADDR 1	I	62	-DASP	I/O
29	+ADDR 0	I	63	-PDIAG	I/O
30	+DATA 0	I/O	64	+DATA 8	I/O
31	+DATA 1	I/O	65	+DATA 9	I/O
32	+DATA 2	I/O	66	+DATA 10	I/O
33	-IOCS16	O	67	GND	O
34	GND	I	68	GND	I

- NOTES:
- I = Input to the drive
 - O = Output from the drive
 - I/O = Bi-directional
 - * = Must be not connected (open) at the Host.
 - ** = If both -IDE1 and -IDE2 are low at power-up then the drive will operate normally. Any other combination will cause the drive to enter a deep sleep mode. A power cycle is required to recover from this mode.



C/P MIN	L ±0.20	S REF	T1 ±0.05	T2 MAX
10.00	85.6	1.50	1.65	2.50
T3 MAX	W1 ±0.10	W2 MAX	X ±0.05	Y ±0.05
12.80	54.00	51.00	1.00	1.60

1. ALL DIMENSIONS IN MM.