G0 Target BB1 Internal wiring reference list

M.C. Herda
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updated
3/12/2001

16 pin connector #20		50 pin connector #A1		Channel #		
EVEN PINS (ie 2,4,6,8,10...)		PINS	48		GND	CLUSTER #4
PINS	1		40	Z	A0	
	3		41	Z	A1	
	5		42	Z	A2	
	7		43	Z	A3	
	9		44	Z	A4	
	11		45	Z	A5	
	13		46	Z	A6	
	15		47	Z	A7	

16 pin connector #27		50 pin connector #A1		Channel #		CLUSTER #1
EVEN PINS (ie 2,4,6,8,10...)		PINS	2		GND	
PINS	1		3	X	A0	MV1
	3		4	X	A1	
	5		5	X	A2	MV30
	7		6	X	A3	
	9		7	X	A4	MV2
	11		8	X	A5	
	13		9	X	A6	MV7
	15		10	X	A7	

16 pin connector #28		50 pin connector #A1		Channel #		CLUSTER #2
EVEN PINS (ie 2,4,6,8,10...)		PINS	2		GND	
PINS	1		11	X	B0	MV4
	3		12	X	B1	
	5		13	X	B2	MV21
	7		14	X	B3	
	9		15	X	B4	PV21
	11		16	X	B5	
	13		17	X	B6	MV13
	15		18	X	B7	

16 pin connector #29		50 pin connector #A1		Channel #		(spare)
EVEN PINS (ie 2,4,6,8,10...)		PINS	27		GND	
PINS	1		19	Y	A0	
	3		20	Y	A1	not
	5		21	Y	A2	used
	7		22	Y	A3	
	9		28	Y	A4	
	11		29	Y	A5	
	13		30	Y	A6	
	15		31	Y	A7	

16 pin connector #30		50 pin connector #A1		Channel #		CLUSTER #3
EVEN PINS (ie 2,4,6,8,10...)		PINS	48		GND	
PINS	1		32	Y	B0	MV22
	3		33	Y	B1	
	5		34	Y	B2	MV9
	7		35	Y	B3	
	9		36	Y	B4	MV10
	11		37	Y	B5	
	13		38	Y	B6	MV11
	15		39	Y	B7	

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16 pin connector #17		50 pin connector #B1		Channel #	spare
EVEN PINS (ie 2,4,6,8,10...)		PINS	2	GND	
PINS	1		3	Z B0	
	3		4	Z B1	
	5		5	Z B2	
	7		6	Z B3	
	9		7	Z B4	
	11		8	Z B5	
	13		9	Z B6	
	15		10	Z B7	

Inputs expect (+) on "pin" side of connector on BB ("socket" side on cable).

Twin Ax connector #39		50 pin connector #B1		Channel #	
PINS	1	PINS	32	1 (+)	PT12
	2		33	1 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #40		50 pin connector #B1		Channel #	
PINS	1	PINS	34	2 (+)	PT2
	2		35	2 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #41		50 pin connector #B1		Channel #	
PINS	1	PINS	36	3 (+)	spare
	2		37	3 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #42		50 pin connector #B1		Channel #	
PINS	1	PINS	38	4 (+)	PT3
	2		39	4 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #43		50 pin connector #B1		Channel #	
PINS	1	PINS	40	5 (+)	PT9
	2		41	5 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #44		50 pin connector #B1		Channel #	
PINS	1	PINS	42	6 (+)	PT4
	2		43	6 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #45		50 pin connector #B1		Channel #	
PINS	1	PINS	44	7 (+)	PT5
	2		45	7 (-)	
SHIELD			48	Analog GND	

Twin Ax connector #46		50 pin connector #B1		Channel #	
PINS	1	PINS	46	8 (+)	
	2		47	8 (-)	
SHIELD			48	Analog GND	

Connector #26		50 pin connector #B1		Channel #	
	C		49	DAC A output	Channel A
	A		50	DAC B output	is Voltage Control
	B		31	GND	Channel B
	D		31	GND	is Current Control
	E		31	GND	

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16 pin connector #31		50 pin connector #A2	Channel #		CLUSTER #5
EVEN PINS (ie 2,4,6,8,10...)		PINS 2		GND	
PINS	1	3	X	A0	MV29
	3	4	X	A1	
	5	5	X	A2	MV32
	7	6	X	A3	
	9	7	X	A4	MV20
	11	8	X	A5	
	13	9	X	A6	SV13
	15	10	X	A7	

16 pin connector #32		50 pin connector #A2	Channel #		CLUSTER #6
EVEN PINS (ie 2,4,6,8,10...)		PINS 2		GND	
PINS	1	11	X	B0	PV12
	3	12	X	B1	
	5	13	X	B2	MV12
	7	14	X	B3	
	9	15	X	B4	
	11	16	X	B5	
	13	17	X	B6	
	15	18	X	B7	

16 pin connector #33		50 pin connector #A2	Channel #		(spare)
EVEN PINS (ie 2,4,6,8,10...)		PINS 27		GND	
PINS	1	19	Y	A0	
	3	20	Y	A1	
	5	21	Y	A2	not
	7	22	Y	A3	used
	9	28	Y	A4	
	11	29	Y	A5	
	13	30	Y	A6	
	15	31	Y	A7	

16 pin connector #34		50 pin connector #A2	Channel #		CLUSTER #7
EVEN PINS (ie 2,4,6,8,10...)		PINS 48		GND	
PINS	1	32	Y	B0	
	3	33	Y	B1	
	5	34	Y	B2	
	7	35	Y	B3	
	9	36	Y	B4	
	11	37	Y	B5	
	13	38	Y	B6	
	15	39	Y	B7	

16 pin connector #18		50 pin connector #B2	Channel #	
EVEN PINS (ie 2,4,6,8,10...)		PINS 2		GND
PINS	1	3	Z	B0
	3	4	Z	B1
	5	5	Z	B2
	7	6	Z	B3
	9	7	Z	B4
	11	8	Z	B5
	13	9	Z	B6
	15	10	Z	B7

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Inputs expect (+) on "pin" side of connector on BB ("socket" side on cable).

Twin Ax connector #2		50 pin connector #B2		Channel #	
PINS	1	PINS	32	1 (+)	PT8
	2		33	1 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #3		50 pin connector #B2		Channel #	
PINS	1	PINS	34	2 (+)	(PT7)
	2		35	2 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #5		50 pin connector #B2		Channel #	
PINS	1	PINS	36	3 (+)	PT13
	2		37	3 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #6		50 pin connector #B2		Channel #	
PINS	1	PINS	38	4 (+)	(spare)
	2		39	4 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #35		50 pin connector #B2		Channel #	
PINS	1	PINS	40	5 (+)	vac 1
	2		41	5 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #36		50 pin connector #B2		Channel #	
PINS	1	PINS	42	6 (+)	vac 2
	2		43	6 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #37		50 pin connector #B2		Channel #	
PINS	1	PINS	44	7 (+)	vac 3
	2		45	7 (-)	
SHIELD			48	Analog GND	
Twin Ax connector #38		50 pin connector #B2		Channel #	
PINS	1	PINS	46	8 (+)	vac 4
	2		47	8 (-)	
SHIELD			48	Analog GND	
Twin Ax Connector #23		50 pin connector #B2		Channel #	
PIN	1	PINS	31	GND	spare
	2		49	DAC A output	
Twin Ax Connector #24		50 pin connector #B2		Channel #	
PIN	1	PINS	31	GND	spare
	2		50	DAC B output	

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16 pin connector #13		50 pin connector #A3	Channel #	
EVEN PINS (ie 2,4,6,8,10...)	PINS	2		GND
PINS	1	3	X	A0
	3	4	X	A1
	5	5	X	A2
	7	6	X	A3
	9	7	X	A4
	11	8	X	A5
	13	9	X	A6
	15	10	X	A7

16 pin connector #14		50 pin connector #A3	Channel #	
EVEN PINS (ie 2,4,6,8,10...)	PINS	2		GND
PINS	1	11	X	B0
	3	12	X	B1
	5	13	X	B2
	7	14	X	B3
	9	15	X	B4
	11	16	X	B5
	13	17	X	B6
	15	18	X	B7

16 pin connector #15		50 pin connector #A3	Channel #	
EVEN PINS (ie 2,4,6,8,10...)	PINS	27		GND
PINS	1	19	Y	A0
	3	20	Y	A1
	5	21	Y	A2
	7	22	Y	A3
	9	28	Y	A4
	11	29	Y	A5
	13	30	Y	A6
	15	31	Y	A7

16 pin connector #16		50 pin connector #A3	Channel #	
EVEN PINS (ie 2,4,6,8,10...)	PINS	48		GND
PINS	1	32	Y	B0
	3	33	Y	B1
	5	34	Y	B2
	7	35	Y	B3
	9	36	Y	B4
	11	37	Y	B5
	13	38	Y	B6
	15	39	Y	B7

16 pin connector #19		50 pin connector #B3	Channel #	
EVEN PINS (ie 2,4,6,8,10...)	PINS	2		GND
PINS	1	3	Z	B0
	3	4	Z	B1
	5	5	Z	B2
	7	6	Z	B3
	9	7	Z	B4
	11	8	Z	B5
	13	9	Z	B6
	15	10	Z	B7

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Inputs expect (+) on "pin" side of connector on BB ("socket" side on cable).

Connector #25		50 pin connector #B3		Channel #	heater
PINS	C	PINS	32	1 (+)	ADC 1
	D		33	1 (-)	(current)
	A		34	2 (+)	heater
	B		35	2 (-)	ADC 2
	E		48	Analog GND	(voltage)

Twin Ax connector #7		50 pin connector #B3		Channel #
PINS	1	PINS	36	3 (+)
	2		37	3 (-)
SHIELD			48	Analog GND

Twin Ax connector #8		50 pin connector #B3		Channel #
PINS	1	PINS	38	4 (+)
	2		39	4 (-)
SHIELD			48	Analog GND

Twin Ax connector #9		50 pin connector #B3		Channel #
PINS	1	PINS	40	5 (+)
	2		41	5 (-)
SHIELD			48	Analog GND

Twin Ax connector #10		50 pin connector #B3		Channel #
PINS	1	PINS	42	6 (+)
	2		43	6 (-)
SHIELD			48	Analog GND

Twin Ax connector #11		50 pin connector #B3		Channel #
PINS	1	PINS	44	7 (+)
	2		45	7 (-)
SHIELD			48	Analog GND

Twin Ax connector #12		50 pin connector #B3		Channel #
PINS	1	PINS	46	8 (+)
	2		47	8 (-)
SHIELD			48	Analog GND

Twin Ax Connector #21		50 pin connector #B3		Channel #
PIN	1	PINS	31	GND
	2		49	DAC A output

Twin Ax Connector #22		50 pin connector #B3		Channel #
PIN	1	PINS	31	GND
	2		50	DAC B output