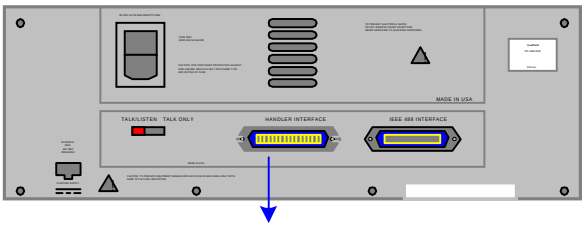
QuadTech

Application Note

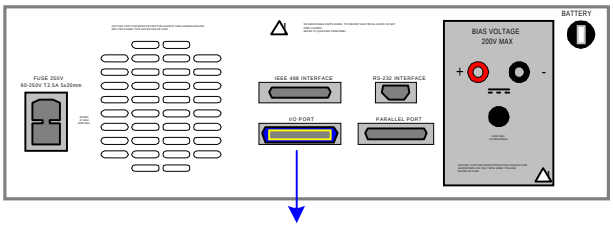
Digibridge™ / 7000 Series Handler Conversion

Figure 1 illustrates the conversion of a Digibridge Instrument's Handler pin out to a 7000 Series Instrument's I/O pin out. Table 1 lists the pin designations by signal name, pin number and pin function.

Rear 1689M Digibridge



Rear 7600 Precision LCR Meter



Handler Interface
Digibridge

Bin 8	24	12		
Bin 4	23	11		
ACQ OVER	22	10	+5V	
Bin 3	21	9	Bin 13	
Bin 7	20	8	Bin 12	
Bin 2	19	7	GND	
EOT	18	6	GND	
Bin 1	17	5	GND	
Bin 6	16	4	Bin 11	
Bin 0	15	3	Bin 10	
Bin 5	14	2	Bin 9	
Bin 14	13	1	START	

I/O Port
7000 Series

Bin 1	1	19	Bin 2	
Bin 3	2	20	Bin 4	
Bin 5	3	21	Bin 6	
Bin 7	4	22	Bin 8	
IGND	5	23	IGND	
Bin 9	6	24	Bin 10	
Bin 11	7	25	Bin 12	
Bin 13	8	26	Bin 14	
Bin 15	9	27	Bin 16	
IGND	10	28	IGND	
GND	11	29	EOT	
5V	12	30	BUSY	
INT+	13	31	INT -	
TRIG+	14	32	+5V	
GND	15	33	GND	
TRIG -	16	34	START+	
	17	35	START-	
	18	36		

NOTE
The numbers in blue are the interface pin #'s.
The signal name is in black next to the pin #.
The pin-outs are shown side-by-side for clarity only. This is **not** an interconnection diagram.

Figure 1: Digibridge Handler Pin-Out versus 7000 Series I/O Pin-Out

Pin Designation

Table 1: Pin Designations

7000 Series I/O PORT			1689M Digibridge HANDLER		
Signal Name	**Pin #**	**Function**	**Signal Name**	**Pin #**	**Function**
-Bin1	1	Bin Sorting Results (Bins 1 – 10) All Signals are Active Low, Open Collector	BIN 0	15	No-Go: due to D or Q limit
-Bin2	19		BIN 1	17	Go, bin 1
-Bin3	2		BIN 2	19	Go, bin 2
-Bin4	20		BIN 3	21	Go, bin 3
-Bin5	3		BIN 4	23	Go, bin 4
-Bin6	21		BIN 5	14	Go, bin 5
-Bin7	4		BIN 6	16	Go, bin 6
-Bin8	22		BIN 7	20	Go, bin 7
-Bin9	6		BIN 8	24	Go, bin 8
-Bin10	24		BIN 9	2	Go, bin 9
-Bin11	7	Primary Pass, Secondary Fail Low	BIN 10	3	Go, bin 10
-Bin12	25	Primary Pass, Secondary Fail High	BIN 11	4	Go, bin 11
-Bin13	8	Primary Fail, Secondary Pass	BIN 12	8	Go, bin 12
-Bin14	26	Primary Fail, Secondary Fail	BIN 13	9	Go, bin 13
-Bin15	9	No Contact	BIN 14	13	RLC Fail, No-go by default
-Bin16	27	Unused			
-EOT	29	End of Test, Test Completed, Bin & Measurement Data Valid	EOT	18	End of Test, Bin Signals are Valid
-BUSY	30	Measurement/Comparison in Progress	ACQ OVER	22	Data Acquisition Over, DUT removal OK
INT+	13	Interlock High Input			
INT-	31	Interlock Low Input			
TRIG+	14	Trigger High Input			
TRIG-	16	Trigger Low Input			
START+	34	Isolated Trigger High Input	START	1	Initiates Measurement
START-	35	Isolated Trigger Low Input			
GND	11, 15, 33	System Common	GND	5, 6, 7	Ground Connection
IGND	5, 10, 23, 28	Isolated Common			
+5V	12, 32	System +5V	+5V	10	DC Bus (+5V)

For complete product specifications on the 7000 Series Precision LCR meters or any of QuadTech's products, visit us at http://www.quadtech.com/products. Do you have an application specific testing need? Call us at 1-800-253-1230 or email applications at jkramer@quadtech.com and we'll work with you on a custom solution. Put QuadTech to the test because we're committed to solving your testing requirements.

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