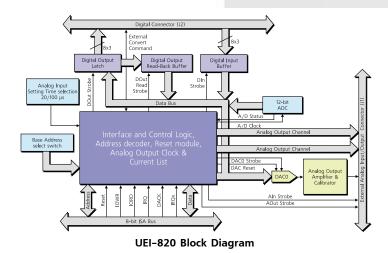
## **UEI-820 ISA Multifunction Boards**



## **General Description**

A drop-in replacement for Analog Devices RTI-820 the UEI-820 is an analog and digital I/O board that plugs into an ISA slot. Used with a wide range of I/O panels, the board accepts a variety of signals with up to 64 analog input channels, 16 analog output channels, and 24 channels of digital I/O accommodated in a single PC slot. The UEI-820 provides 12-bit A/D and D/A resolution, acquisition rates up to 19 kHz, and wide variety of signal conditioning options for either isolated or nonisolated I/O.

The UEI-820 contains one 12-bit A/D converter and one 12-bit D/A converter that provide one channel of analog output, respectively. Multiple channels are accommodated with the interface panels by multiplexing several input and output channels into the single I/O lines of UEI-820 through the J1 connector.



VREAD (AIN)-	1	2	ни сом			
VWRITE (AIN)-	3	4	-I/O COM			
I/O COM-	5	6	-I/O COM			
READ ADDRESS A-	7	8	READ ADDRESS B			
READ ADDRESS C-	9	10	READ ADDRESS D			
READ ADDRESS E-	11	12	READ ADDRESS F			
WRITE ADDRESS A-	13	14	WRITE ADDRESS B			
WRITE ADDRESS C-	15	16	-WRITE ADDRESS D			
WRITE ADDRESS E-	17	18	WRITE ADDRESS F			
READ ENABLE -	19	20	-WRITE ENABLE			
+5V-	21	22	N/C			
+5V-	23	24	-+5V			
DGND-	25	26	DGND			
	_					
UEI-820 Analog Outpu						
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DIO7 PORT2	1	2	DGND
DIO6 PORT2	3	4	- DGND
DIO5 PORT2	5	6	- DGND
DIO4 PORT2	7	8	DGND
DIO3 PORT2	9	10	DGND
DIO2 PORT2	11	12	DGND
DIO1 PORT2	13	14	DGND
DIO0 PORT2	15	16	DGND
DIO7 PORT1	17	18	DGND
DIO6 PORT1-	19	20	- DGND
DIO5 PORT1-	21	22	- DGND
DIO4 PORT1-	23	24	- DGND
DIO3 PORT1-	25	26	- DGND
DIO2 PORT1-	27	28	- DGND
DIO1 PORT1-	29	30	- DGND
DIO0 PORT1-	31	32	- DGND
DIO7 PORTO-	33	34	- DGND
DIO6 PORT0-	35	36	- DGND
DIO5 PORTO-	37	38	- DGND
DIO4 PORT0-	39	40	- DGND
DIO3 PORTO-	41	42	- DGND
DIO2 PORTO-	43	44	- DGND
DIO1 PORTO-	45	46	DGND
DIO0 PORTO-	47	48	DGND
+5V-	49	50	DGND

ut Connector (J1)

UEI-820 Digital I/O Connector (J2)

## **Technical Specifications**

Analog Input		
Number of channels	Up to 64*	
	(*depends on interface panel used)	
Resolution	12 bits	
A/D Converter TIme	30 ms typ	
System Throughput	19 kHz max	
Accuracy	±0.025% (±1 LSB)	
Analog Output		
Number of Channels	Up to 64*	
Resolution	12 bits	
Update Rate	400 Hz each channel	
Accuracy	±0.025% (±1 LSB)	

Digital I/O		
Number of channels	24	
Signal levels	Inverted TTL V <sub>OL</sub> 0.4V max I <sub>OL</sub> 24 mA max	
General		
Operating temperature	0°C to +70°C	
Relative humidity Power consumption	Up to 90% +5V @ 650 mA +12V @ 25 mA -12V @ 40 mA	

## **Ordering Information**

UEI-820.....