

Approvals



Standard Features

- iQUBE² board has four A/D channels
- Supports networking up to four boards, for 16 A/D channels; connection can be up to four separate platforms with a system total, or four separate scale systems
- · Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- Onboard status LEDs for communication and visual bi-color indication of cell health
- Cell emulator compensates for load cell failure until a repair can be made



- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- Standard communications
- Option card slot for fiber optic, Ethernet TCP/IP, . wireless TCP/IP, USB or RS-232/RS-485
- Communicates to 920i[®], 1280, VIRTUi^{2®} using ASCII (EDP) serial commands

Applications

- Truck and railroad scales
- Tank and hopper scales
- · Multi-channel scales

Specifications

Voltage Input:

115/230 VAC power supply DC/DC converter for 9 to 36V 6 to 12 V DC to CPU

Analog Signal Input Range: -78 to +78 mV

Analog Signal Sensitivity: 0.3 uV/grad at 30 Hz

0.5 uV/grad at 100 Hz 1.2 uV/grad at 500 Hz

A/D Sampling Rate:

2.5 to 500 Hz (selectable)

Digital I/O:

Four per card, for push-button operation, setpoint control or cell status

Communication Ports:

RS-232/RS-422 Load Cell Inputs:

Four channels per board up to four networked boards

Load Cell Excitation:

5 V DC, 57 mA maximum per channel **Temperature Range:**

Certified: 14 °F to 104 °F (-10 °C to 40 °C)

Operating: -13 °F to 140 °F (-25 °C to 60 °C)

- Storage:
- -13 °F to 158 °F (-25 °C to 70 °C)

Rating/Material:

Polycarbonate (NEMA Type 4X) enclosure with overlapping solid cover, stainless steel screws Stainless steel (NEMA Type 4X) enclosure with hinged cover

Warranty:

Two-year limited

Approvals:

NTEP 03-032A1 Measurement Canada AM-5561 cULus E151461 CE Marked

Part Number/Price

Part#	rt # Description		Price			
With AC Power Supply						
108425*	* iQUBE ² , four-channel, polycarbonate 8 × 10 in junction box 9 lb					
108426 iQUBE ² , four-channel, polycarbonate 10 × 12 in junction box		11 lb	\$1,500.00			
108427 iQUBE ² , eight-channel, polycarbonate 10 × 12 in junction box		11 lb	\$2,500.00			
108428*	$iQUBE^2$, four-channel, stainless steel 8 × 10 in junction box	13lb	\$2,450.00			
Without Po	ower Supply					
108429*	1429* iQUBE ² , four-channel, polycarbonate 8 × 10 in junction box 8 lb		\$1,200.00			
108430 iQUBE ² , four-channel, polycarbonate 10 × 12 in junction box		10 lb	\$1,500.00			
108431 iQUBE ² , eight-channel, polycarbonate 10 × 12 in junction box		10 lb	\$2,400.00			
108432*	iQUBE ² , four-channel, stainless steel 8 × 10 in junction box	12 lb	\$2,450.00			
Conduit A	dapters					
92734	34 Conduit adapter 3/8 in NTP to 3/4 in NPT		\$27.00			
92735	22735 Conduit adapter 1/2 in NTP to 3/4 in NPT					

* Enclosure size 8 x 10in required for truck scale junction box pocket

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes.



Options/Accessories

Part #	Description	Price				
108433	Four-channel iQUBE ² board with cables and connectors	\$1,000.00				
97475	DC/DC power supply, 9-36 VDC (requires factory installation)					
108434						
109396	Transient board					
110949	Transient board with mount					
161954	Hotspot in polycarbonate enclosure					
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	\$15.00				
Communi	cation Card					
108579	RS-232/RS-485 port	\$285.00				
77142	Ethernet TCP/IP	\$420.00				
206272	Wireless LAN 802.11 A/B	\$610.00				
93245	USB port	\$185.00				
77143	Fiber-optic board	\$220.00				
77788	Fiber-optic board (installed in 920i)	\$220.00				
Duplex Fil	per (Max Run 350 ft)					
78026	Fiber-optic cable, 100 ft	\$175.00				
78027	Fiber-optic cable, 200 ft	\$328.00				
78910	Fiber-optic cable, custom length	\$1.75/ft				
Home Rur						
116587	EL166 16 gauge, six conductor, shielded	\$2.65/ft				
Software						
108436	VIRTUi ² activation part number	\$550.00				
112262	Firmware update flash cable	\$65.00				
920i [®] Ind	icators for use with iQUBE2, requires version 4 software					
77790	920i Universal, 115 VAC, without A/D	\$2,750.00				
77791	920i Universal, 230 VAC, without A/D	\$2,750.00				
93243	920i Deep Universal, 115 VAC, without A/D	\$3,000.00				
93244	920i Deep Universal, 230 VAC, without A/D	\$3,000.00				
		\$3,000.00				
77792	920i Panel Mount, 115 VAC, without A/D	\$3,000.00				
77792 77793	920i Panel Mount, 115 VAC, without A/D	. ,				
		\$2,750.00				
77793	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D	\$2,750.00 \$2,750.00				
77793 77794 77795	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D	\$2,750.00 \$2,750.00 \$3,550.00				
77793 77794 77795	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D sators for use with iQUBE2	\$2,750.00 \$2,750.00 \$3,550.00				
77793 77794 77795 1280 Indie	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D	\$2,750.00 \$2,750.00 \$3,550.00 \$3,550.00				
77793 77794 77795 1280 Indie 189623	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D sators for use with iOUBE2 1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	\$2,750.00 \$2,750.00 \$3,550.00 \$3,550.00 \$2,880.00				
77793 77794 77795 1280 India 189623 188526	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D 1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D 1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	\$2,750.00 \$2,750.00 \$3,550.00 \$3,550.00 \$2,880.00 \$2,980.00				
77793 77794 77795 1280 India 189623 188526 188395	920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 2ators for use with iOUBE2 1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D 1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D 1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D 1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	\$2,750.00 \$2,750.00 \$3,550.00 \$3,550.00 \$2,880.00 \$2,980.00 \$4,045.00				
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77793 77794 77795 1280 India 189623 188526 188395 181073 178473 205677	 920i Panel Mount, 115 VAC, without A/D 920i Panel Mount, 230 VAC, without A/D 920i Wall Mount, 115 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 920i Wall Mount, 230 VAC, without A/D 1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D 1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D 1280 Panel Mount, DC power supply, no power cord, standard display, without A/D 1280 Panel Mount, AC power supply, no power cord, standard display, without A/D 1280 Panel Mount, AC power supply, no power cord, standard display, without A/D 1280 Panel Mount, AC power supply, no power cord, standard display, without A/D 1280 Wall Mount, AC power supply, No power cord, standard display, without A/D 1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D 1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D 1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D 1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D 1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D 	\$2,750.00 \$2,750.00 \$3,550.00 \$3,550.00 \$2,980.00 \$2,980.00 \$4,045.00 \$2,880.00 \$2,880.00 \$2,980.00 \$3,480.00				
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Sample Configurations

Not an actual system—illustrates connectivity

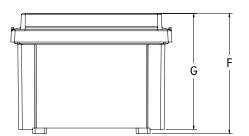


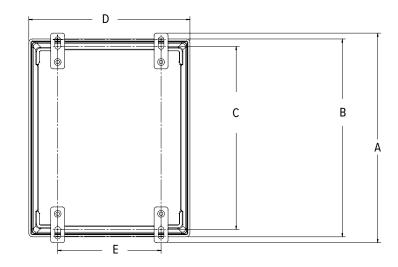
iQUBE^{2®}

Digital Diagnostic Junction Box

Dimensions

iQUBE ²						
Stainless Steel 8 × 10 in						
А	11.50 in (292 mm)	E	6.00 in (152 mm)			
В	10.30 in (262 mm)	F	4.30 in (109 mm)			
С	10.90 in (277 mm)	G	4.20 in (107 mm)			
D	8.30 in (211 mm)					
POLY 8 × 10 in						
Α	10.10 in (257 mm)	E	4.00 in (102 mm)			
В	9.50 in (241 mm)	F	6.00 in (152 mm)			
С	8.50 to 9.30 in (216 to 236 mm)	G	5.70 in (145 mm)			
D	7.40 in (188 mm)					
POLY 10 × 12 in						
Α	12.10 in (307 mm)	E	6.00 in (152 mm)			
В	11.50 in (292.1 mm)	F	7.00 in (178 mm)			
С	10.50 to 11.30 in (267 to 287 mm)	G	6.70 in (170 mm)			
D	9.30 in (236 mm)					





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