



Standard Features

Approvals

- 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 36 V 6 to 12 VDC 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 VDC, 57 mA maximum per channel

Rating/Material:

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

Temperature:

Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -13 °F to 140 °F (-25 °C to 60 °C)

Warranty:

Two-year limited

Approvals:

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

Part Number/Price

Part#	# Description		Price			
With AC Power Supply						
108425*	425* iQUBE ² , four-channel, polycarbonate 8 × 10 in junction box 9 lb		Consult			
108426	108426 iQUBE ² , four-channel, polycarbonate 10×12 in junction box		Consult			
108427	108427 iQUBE², eight-channel, polycarbonate 10 × 12 in junction box		Consult			
108428*	108428 * iQUBE ² , four-channel, stainless steel 8×10 in junction box 13 lb		Consult			
Without Power Supply						
108429*	iQUBE ² , four-channel, polycarbonate 8 × 10 in junction box	8 lb	Consult			
108430	iQUBE ² , four-channel, polycarbonate 10 × 12 in junction box	10 lb	Consult			
108431	iQUBE ² , eight-channel, polycarbonate 10 × 12 in junction box		Consult			
108432*	D8432* iQUBE ² , four-channel, stainless steel 8 × 10 in junction box 12 lb		Consult			
Conduit Adapters						
92734	Conduit adapter 3/8 in NTP to 3/4 in NPT		Consult			
92735	Conduit adapter 1/2 in NTP to 3/4 in NPT		Consult			

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



Options/Accessories

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Part #	Description	Price
108433	Four-channel iQUBE ² board with cables and connectors	Consult
97475	DC/DC power supply, 9 to 36 VDC (requires factory installation)	Consult
108434	Remote power supply 115/230 VAC and transient board with enclosure	Consult
109396	Transient board	Consult
110949	Transient board with mount	Consult
161954	Hotspot in polycarbonate enclosure	Consult
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	Consult
	cation Card	
108579	RS-232/RS-485 port	Consult
77142	Ethernet TCP/IP	Consult
206272	Wireless LAN 802.11 A/B	Consult
93245	USB port	Consult
77143 77788	Fiber-optic board	Consult
	Fiber-optic board (installed in 920i)	Consult
78026	per (Max Run 350 ft) Fiber-optic cable, 100 ft	Consult
78027	Fiber-optic cable, 100 ft	Consult
78910	Fiber-optic cable, custom length	Consult/ft
Home Rur		Consutt/it
116587	EL166 16 gauge, six conductor, shielded	Consult/ft
Software	ELTO TO guage, six conductor, sinetaca	Consultrit
108436	VIRTUi ² activation part number	Consult
112262	Firmware update flash cable	Consult
920i® Indi	cators for use with iQUBE ² , requires version 4 software	
77790	920i Universal, 115 VAC, without A/D	Consult
77791	920i Universal, 230 VAC, without A/D	Consult
93243	920i Deep Universal, 115 VAC, without A/D	Consult
93244	920i Deep Universal, 230 VAC, without A/D	Consult
77792	920i Panel Mount, 115 VAC, without A/D	Consult
77793	920i Panel Mount, 230 VAC, without A/D	Consult
77794	920i Wall Mount, 115 VAC, without A/D	Consult
77795	920i Wall Mount, 230 VAC, without A/D	Consult
	ators for use with iQUBE ²	_
189623	1280 7 inch touch-only, AC power supply, no power cord, standard display, without A/D	Consult
188526	1280 7 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	Consult
188395	1280 12 inch touch-only, AC power supply, no power cord, high visibility display, without A/D	Consult
181073	1280 Panel Mount, DC power supply, no power cord, standard display, without A/D	Consult
178473 205677	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	Consult
171667	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	Consult Consult
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D 1280 Panel Mount, AC power supply, no power cord, standard display, without A/D	Consult
174750	1280 Universal, AC power supply, Europe power cord, standard display, without A/D	Consult
174207	1280 Universal, AC power supply, U.S. power cord, standard display, without A/D	Consult
188713	1280 Universal, DC power supply, no power cord, standard display, without A/D	Consult
171540	1280 Universal, DC power supply, no power cord, high visibility display, without A/D	Consult
172419	1280 Universal, AC power supply, U.S. power cord, high visibility display, without A/D	Consult



Sample Configurations

Not an actual system—illustrates connectivity



iQUBE^{2®}

iQL	iQUBE ²						
Stainless Steel 8 × 10 in							
Α	11.50 in (292 mm)	Е	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)						
Polycarbonate 8 × 10 in							
Α	10.10 in (257 mm)	Е	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)						
Polycarbonate 10 × 12 in							
Α	12.10 in (307 mm)	Е	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)						



