



Approvals



Canada





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 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	Est. Weight	Price				
With AC Po	With AC Power Supply						
108425*	125* iQUBE², four-channel, polycarbonate small junction box 9 lb		Consult				
108426	iQUBE ² , four-channel, polycarbonate large junction box	11 lb	Consult				
108427	iQUBE ² , eight-channel, polycarbonate large junction box		Consult				
108428*	iQUBE ² , four-channel, stainless steel small junction box	13 lb	Consult				
Without Power Supply							
108429*	iQUBE ² , four-channel, polycarbonate small junction box 8 lb Cons		Consult				
108430	iQUBE ² , four-channel, polycarbonate large junction box	10 lb	Consult				
108431	iQUBE², eight-channel, polycarbonate large junction box	10 lb	Consult				
108432*	8432* iQUBE ² , four-channel, stainless steel small 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

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	4 Hotspot in polycarbonate enclosure				
215178	Mounting tabs-new style (set of 4, includes screws), polycarbonate	Consult			
Communic	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	Fiber-optic board	Consult			
77788	Fiber-optic board (installed in 920i)	Consult			
	per (Max Run 350 ft)				
78026	Fiber-optic cable, 100 ft	Consult			
78027	Fiber-optic cable, 200 ft	Consult			
78910	Fiber-optic cable, custom length	Consult/ft			
Home Run					
116587	EL166 16 gauge, six conductor, shielded	Consult/ft			
Software					
108436	VIRTUi² activation part number	Consult			
112262	Firmware update flash cable	Consult			
	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	1280 Panel Mount, AC power supply, no power cord, high visibility display, without A/D	Consult			
205677	1280 Wall Mount, AC power supply, U.S. power cord, standard display, without A/D	Consult			
171667	1280 Wall Mount, AC power supply, U.S. power cord, high visibility display, without A/D	Consult Consult			
174750	1280 Panel Mount, AC power supply, no power cord, standard display, without A/D				
174207	1280 Universal, AC power supply, Europe power cord, standard display, without A/D				
171582	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



Dimensions

iQUBE ²						
Stainless Steel						
Α	13.50 in (343 mm)	E	8.00 in (203 mm)			
В	12.28 in (312 mm)	F	6.29 in (160 mm)			
С	12.75 in (324 mm)	G	6.20 in (157 mm)			
D	10.28 in (261 mm)					
Polycarbonate Small						
Α	12.13 in (308 mm)	Е	5.98 in (152 mm)			
В	11.45 in (291 mm)	F	6.95 in (176 mm)			
С	10.51 in to 11.30 in (267 mm to 287 mm)	G	6.71 in (170 mm)			
D	9.32 in (236.84 mm)					
Polycarbonate Large						
Α	14.13 in (359 mm)	E	7.99 in (203 mm)			
В	13.46 in (341 mm)	F	7.02 in (178 mm)			
С	12.52 in to 13.31 in (318 mm to 338 mm)	G	6.79 in (172 mm)			
D	11.36 in (289 mm)					



