

170	169	144	143	118	117	92	91	66	65	40	39	14	13
171	168	145	142	119	116	93	90	67	64	41	38	15	12
172	167	146	141	120	115	94	89	68	63	42	37	16	11
173	166	147	140	121	114	95	88	69	62	43	36	17	10
174	165	148	139	122	113	96	87	70	61	44	35	18	9
175	164	149	138	123	112	97	86	71	60	45	34	19	8
176	163	150	137	124	111	98	85	72	59	46	33	20	7
177	162	151	136	125	110	99	84	73	58	47	32	21	6
178	161	152	135	126	109	100	83	74	57	48	31	22	5
179	160	153	134	127	108	101	82	75	56	49	30	23	4
180	159	154	133	128	107	102	81	76	55	50	29	24	3
181	158	155	132	129	106	103	80	77	54	51	28	25	2
182	157	156	131	130	105	104	79	78	53	52	27	26	1

Modules will install in order from module number 1 in increasing order until the last module. Review module cable connection on page 8.

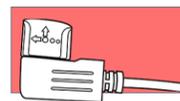
STAX Boost Power Continuation Cable found in (Yellow Labeled Bag). Required after each 12th consecutive module per display face. Review Boost Power Cable Continuation connection on page 8.

STAX Controller Cable Kit found in (Red Labeled Bag). One cable kit per display face. Includes one Primary Controller Power Cable and one 1st Module Power/Data Cable

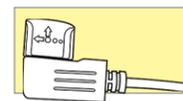
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

All components are auto switching between 120 and 240 Volts. Maximum Amperage per lead: 16 Amps @120V. Multiple leads can be connected together and share a breaker. Multiple circuits may share the same neutrals. Display electrical requirements per face are shown below. 9.5mm values are 6% less. Follow your local NEC Codes & regulations.

## PRIMARY DISPLAY FRONTVIEW



TYP. (1)  
1st Module Power/Data Cable must be connected to first module and to STAX Controller



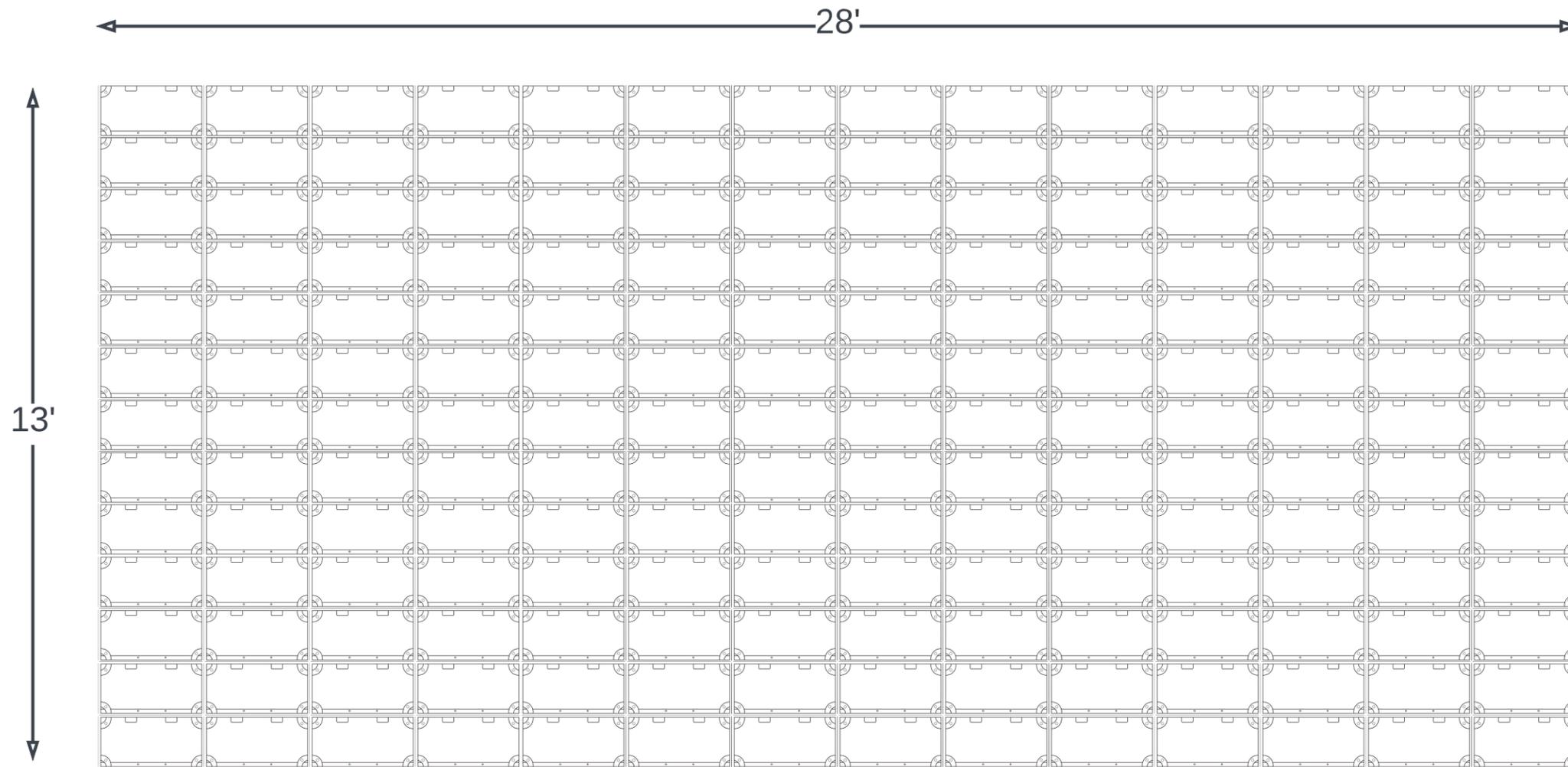
TYP. (15)  
STAX Boost Power Continuation Cable required (at maximum) after each 12th consecutive module per display face.

Additional displays of the same size will be configured identically. Unique installations of size and location may require additional engineering discussion with Next.



Product Conforms to UL STD. 48, UL STD. 62368-1, & CSA STD. C22.2 NO. 62368\*1

Circuit	Modules	Maximum Watts	Average Watts	Maximum Amps@120V	Maximum Amps@208V	Maximum Amps@240V
1	1 - 24	1872	992	15.6	9.0	7.8
2	25-48	1872	992	15.6	9.0	7.8
3	49-72	1872	992	15.6	9.0	7.8
4	73-96	1872	992	15.6	9.0	7.8
5	97-120	1872	992	15.6	9.0	7.8
6	121-144	1872	992	15.6	9.0	7.8
7	145-168	1872	992	15.6	9.0	7.8
8	169-182	1092	579	9.1	5.3	4.6
TOTAL	182	14196	7524	118.3	68.3	59.2

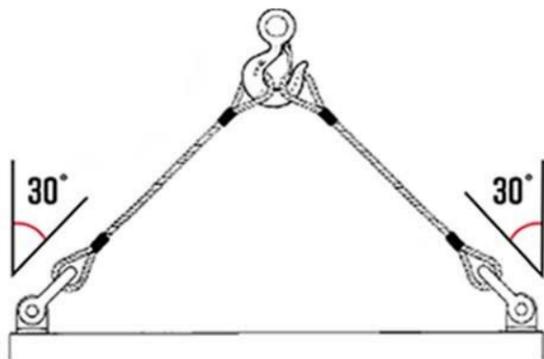


**PRIMARY DISPLAY REARVIEW**

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

Part Description	Part Weight (lbs)
1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE	8.8
1' x 2' STAX LED DISPLAY FRAME	5.25
1' x 2' STAX LED DISPLAY FRAME DOOR	2.1
2' x 4' STAX LED DISPLAY FRAME	11.25
2' x 4' STAX LED DISPLAY FRAME DOOR	4.5
STAX PC CONTROLLER	9.6

Maximum weight shown shows total display weight using only 1'x2' frames and frame doors. Actual weight may be less and will be represented on the quote number purchased. Contact Next for any questions regarding dependencies



**SHACKLE ATTACHMENT**

The shackle cables should connect to the lifting pins at an angle of 30 degrees or less to prevent damage to the cabinet frame. Spreader bar should be used when three or more lifting pins are required per face. Must lift final assembled sign with a minimum of two lifting points. Determine total number of lifting points with a 330 maximum lbs per lifting pin.

Display Face	Maximum Weight (lbs) Including Frame Doors	Maximum (lbs) Per Lifting Pin	Number of Pins Per Face
1	3322	330	11
2	6643	N/A	N/A

## LAUNCH INSTRUCTIONS

1. Assemble all frames and modules per installation instructions on page 1.
2. After all modules have been assembled, connect the controller to the first module of the display face with the 1st Module Power/Data cable found in the RED labeled cable kit bag. You will use one cable for the primary display and one cable for the secondary display. Primary power [A] is connected to primary display output [C] and secondary power [B] is connected to secondary display output [D].
3. Connect the controller primary power to a power source with the power cable found in the RED labeled kit bag.
4. Power-up the primary power source for the controller box. On initial powerup the successful sequence on the display will appear as:
  - 1) Flash of light
  - 2) Black screen
  - 3) Blue screen
  - 4) Logo screen
  - 5) Black screen
5. Contact Next (833-474-STAX) for final configuration and software connection. We will remotely work with your technician and configure the display in under 10 minutes.



Each display face requires a controller cable kit consisting of one primary power cable and one display connection cable.

Each primary power connection is an independent circuit. For smaller displays, the Primary and Secondary display power connection can share a circuit. Confirm loads and all electrical details prior to installation.

Cellular Antenna, with mounting bracket, is included and ready for installation. Light Sensor, with mounting bracket, is included and ready for installation. They are connected through Input [E].

Lifetime installation support and software training are available prior to, during, and after the installation of display.

Mounting brackets and screws are included. There are multiple bracket installation positions available. Not all are required to be used. Do not puncture or modify the control box without approval from Next.

For installations requiring direct Cat5e connections or wireless point to point antennas, please contact Next to confirm parts and installation method.

PIXEL PITCH	PIXEL HEIGHT	PIXEL WIDTH
6mm	624	1344
9mm	416	896



# PARTS AND PACKAGING

PARTS LIST				
PART NUMBER	PART DESCRIPTION	QUANTITY REQUIREMENTS	SINGLE FACE	DOUBLE FACE
1701-MODULE / 1700-MODULE	1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE		182	364
3700-CONTROL	STAX LED DISPLAY CONTROLLER	1 PER DOUBLE FACE DISPLAY	1	1
1780-CONTROL	STAX CONTROLLER CABLE KIT	1 PER FACE	1	1
1772-MODULE	STAX BOOST POWER CONTINUATION CABLE	1 PER EACH 12 MODS STARTING AT 13	15	30
0712-CABINET	STAX CONTROLLER MOUNTING PLATE	1 PER STAX CONTROLLER	1	1

CRATE PACKAGING				
PART NUMBER	PART DESCRIPTION	QUANTITY PER CRATE	CRATE SIZE WxLxH (In)	CBM
1701-MODULE/ 1700-MODULE	1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE	12	29x27x27	.41
0770-CABINET	1' x 2' STAX LED DISPLAY FRAME	12	29x27x27	.41
0771-CABINET	1' x 2' STAX LED DISPLAY FRAME DOOR	40	35x25x28	.75
0772-CABINET	2' x 4' STAX LED DISPLAY FRAME	6	51x28x31	.40
0773-CABINET	2' x 4' STAX LED DISPLAY FRAME DOORS	25	46x25x28	.54

AND

OPTION 1: MIXED FRAME ASSEMBLY				
PART NUMBER	PART DESCRIPTION	QUANTITY REQUIREMENTS	SINGLE FACE	DOUBLE FACE
0770-CABINET	1' x 2' STAX LED DISPLAY FRAME	1 FRAME SUPPORTS 1 MODULE	14	28
0771-CABINET	1' x 2' STAX LED DISPLAY FRAME DOOR	1 DOOR PER FRAME	14	28
0772-CABINET	2' x 4' STAX LED DISPLAY FRAME	1 FRAME SUPPORTS 4 MODULES	42	84
0773-CABINET	2' x 4' STAX LED DISPLAY FRAME DOOR	2 DOORS PER FRAME	84	168

OR

OPTION 2: SINGLE FRAME ONLY ASSEMBLY				
PART NUMBER	PART DESCRIPTION	QUANTITY REQUIREMENTS	SINGLE FACE	DOUBLE FACE
0770-CABINET	1' x 2' STAX LED DISPLAY FRAME	1 FRAME SUPPORTS 1 MODULE	182	364
0771-CABINET	1' x 2' STAX LED DISPLAY FRAME DOOR	1 DOOR PER FRAME	182	364
0772-CABINET	2' x 4' STAX LED DISPLAY FRAME	1 FRAME SUPPORTS 4 MODULES	0	0
0773-CABINET	2' x 4' STAX LED DISPLAY FRAME DOOR	2 DOORS PER FRAME	0	0

# 1' X 2' MODULE FRAME

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

Four hole frame steel connection plates are not required for assembly and provided for flexibility in installation solutions.



PARTS INCLUDED WITH EACH FRAME	
PART	QUANTITY
12mm Bolts	6
12mm washers	4
12mm nuts	4
Four hole frame steel connection plates	1

RECOMMENDED TOOLS FOR ASSEMBLY	
PART	
Impact Drill	
19mm Socket	
19mm Wrench	
Allen Wrench Tool (Provided in Controller Box)	

# 2' X 4' MODULE FRAME

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

Four hole frame steel connection frames are not required for assembly and provided for flexibility in installation solutions.



PARTS INCLUDED WITH EACH FRAME	
PART	QUANTITY
12mm Bolts	6
12mm washers	4
12mm nuts	4
Four hole frame steel connection plates	1

RECOMMENDED TOOLS FOR ASSEMBLY	
PART	
Impact Drill	
19mm Socket	
19mm Wrench	
Allen Wrench Tool (Provided in Controller Box)	

170	169	144	143	118	117	92	91	66	65	40	39	14	13
171	168	145	142	119	116	93	90	67	64	41	38	15	12
172	167	146	141	120	115	94	89	68	63	42	37	16	11
173	166	147	140	121	114	95	88	69	62	43	36	17	10
174	165	148	139	122	113	96	87	70	61	44	35	18	9
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179	160	153	134	127	108	101	82	75	56	49	30	23	4
180	159	154	133	128	107	102	81	76	55	50	29	24	3
181	158	155	132	129	106	103	80	77	54	51	28	25	2
182	157	156	131	130	105	104	79	78	53	52	27	26	1

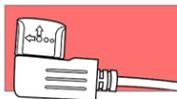
Redundancy is a special order installation that requires a custom order cable. Next supplies this cable directly to the installer separate from traditional product orders.

When redundancy is utilized it requires the primary and secondary displays to be configured using only one 1st Module Power/Data Cable connected to the primary display. The secondary display will be connected in series with a Boost Power Connection Cable from the last module of the primary display to the first module of the secondary display.

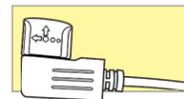
The Redundancy Cable will be connected to the last module on the secondary display, or primary display if there is only one face.

PIXEL PITCH	REDUNDANCY MAXIMUM NUMBER OF MODULES
6mm	336
9mm	168

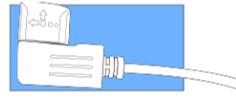
## PRIMARY DISPLAY FRONTVIEW



TYP. (1)  
1st Module Power/Data Cable must be connected to first module and to STAX Controller



TYP. (15)  
STAX Boost Power Continuation Cable required (at maximum) after each 12th consecutive module per display face.



TYP. (1)  
Redundancy Data Cable, to be connected from the last module, to sending card port 2 within the control box.

If the display exceeds the maximum number of modules for use of redundancy contact Next for assistance in additional equipment and setup. May require additional equipment not previously quoted.



Quantity of boost power cables will vary depending on total number of modules in the display. Some installations can use a Boost Power Continuation Cable before the 12th module. Refer to specific display schematics on page 1 for recommended installation.



STAX Boost Power Continuation Cable found in (Yellow Labeled bag). Required after each 12th consecutive module (Maximum) per display face.

Boost power cable lead can be combined with other leads to primary power. Electrical schedule can be found on page 1.



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# PROJECT DETAIL

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