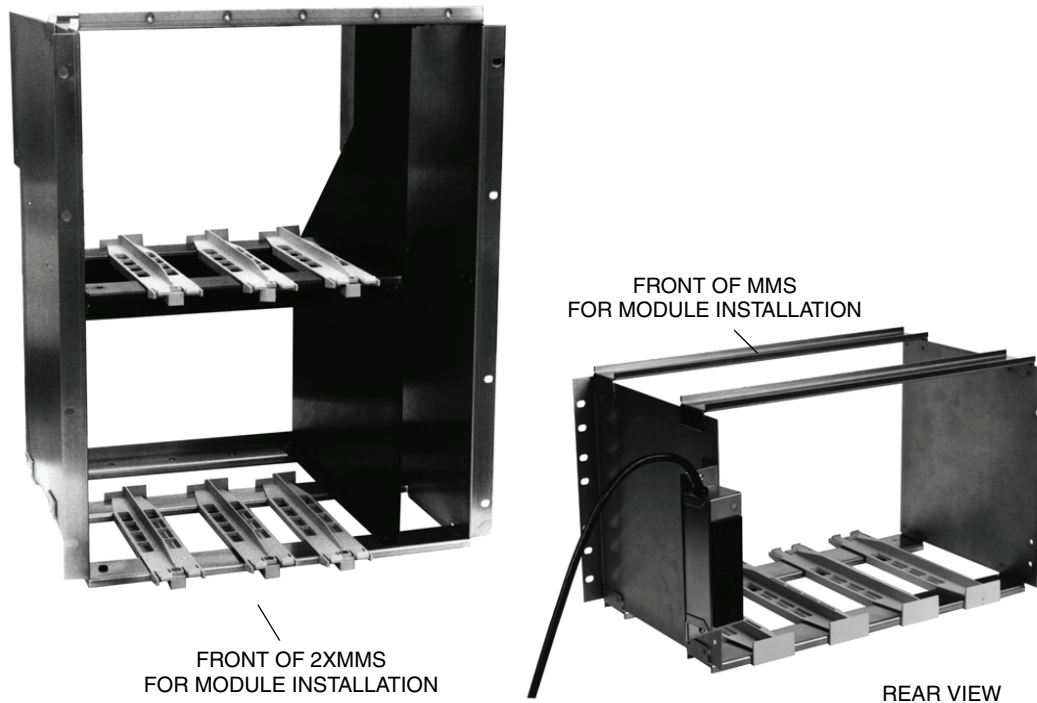


19-Inch Modular Mounting Structure Assemblies



Two types of 19-inch Modular Mounting Structure (MMS) assemblies provide support to distribute workstation, application and bulk storage configurations across equipment areas. Both accommodate flexible combinations of processors, workstations and data storage modules as indicated below and shown in Figure 1 and Figure 2:

- ▶ the 19-inch MMS supports A-, B-, and D-size modules only
- ▶ the 19-inch 2xMMS supports A-, B-, C-, D-, E-, F-, G-, H-, J-, K- and L-size modules.

The MMS or 2xMMS come premounted in certain vented configurations of I/A Series Metal Industrial Enclosures, and are also available as stand-alone products for mounting inside any standard 483 mm (19-inch) wide rack.

Refer to Table 1 on page 6 for dimensions of each processor, workstation and data storage module.

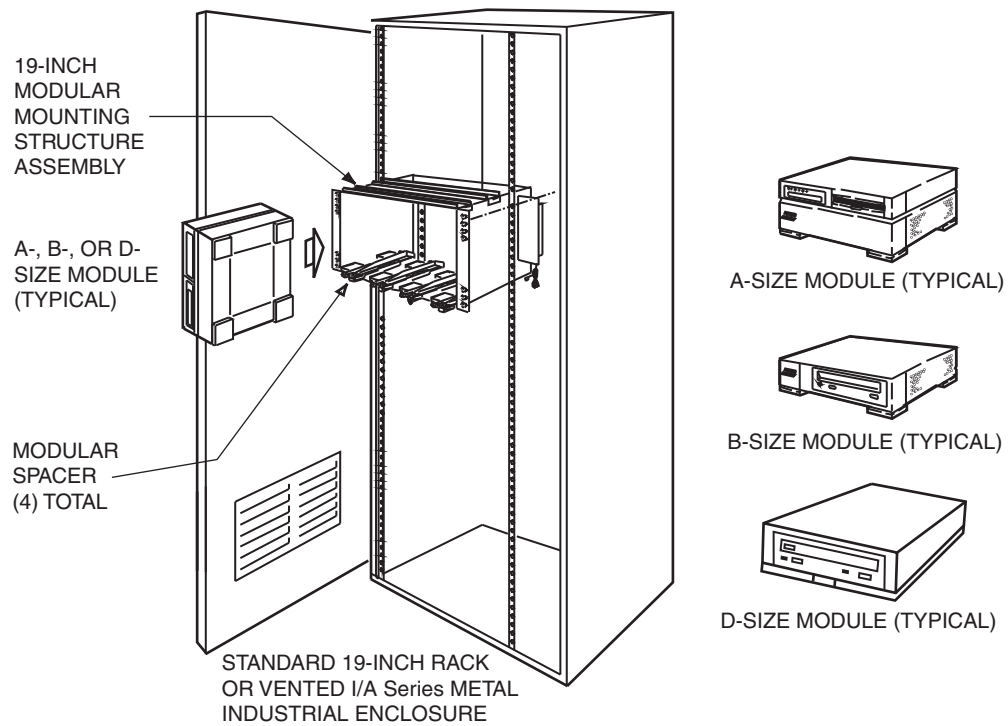


Figure 1. Modular Mounting Structure (MMS)

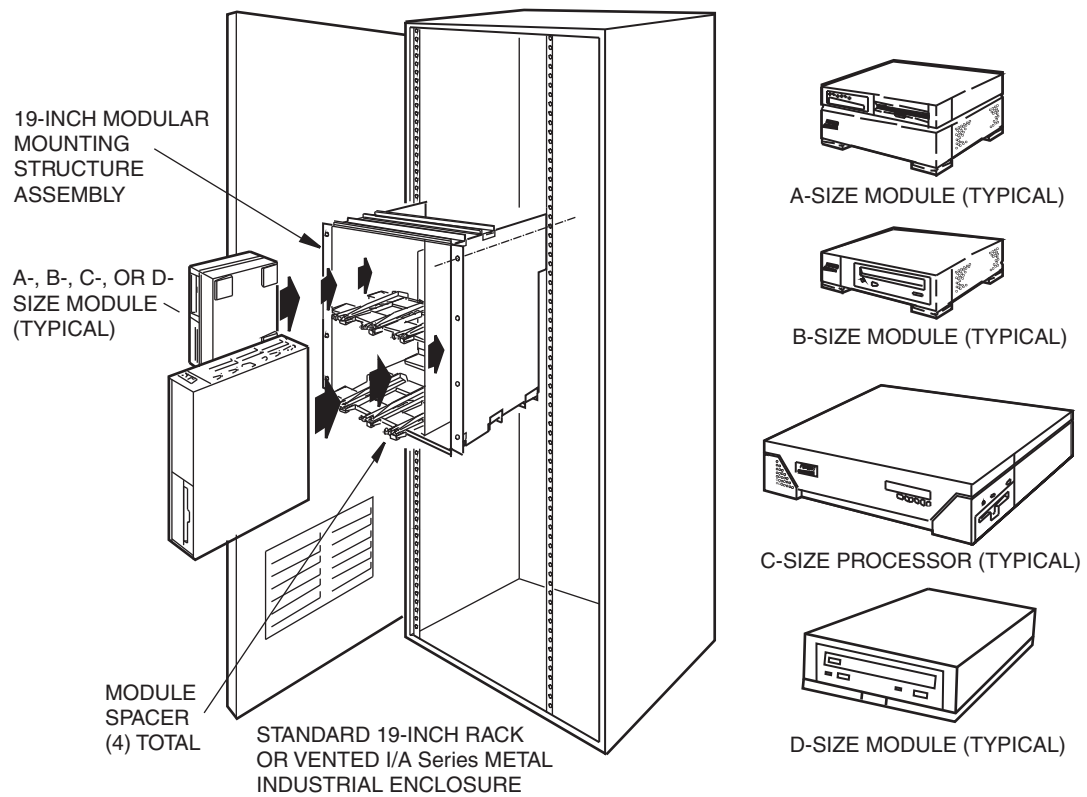


Figure 2. Dual Height Modular Mounting Structure (2xMMS) with A-, B-, C-, and D-Size Modules

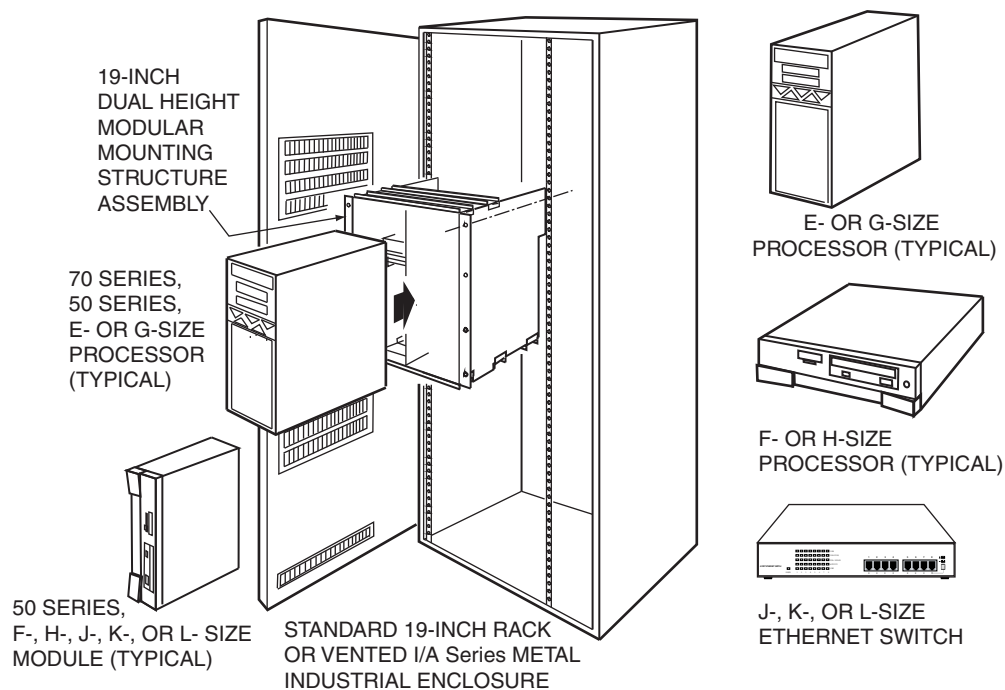


Figure 3. Dual Height Modular Mounting Structure (2xMMS) with E- to L-Size Modules (with Vented Door)

FUNCTIONAL SPECIFICATIONS

Environmental

The environmental specifications for each 19-inch Modular Mounting Structure are fully dependent upon the limits and constraints of the modules residing within.

PHYSICAL SPECIFICATIONS

19-Inch Modular Mounting Structure (MMS)

MASS (EMPTY)

4.54 kg (10 lbs)

MOUNTING

Standard 483 mm (19-inch) rack, vented
I/A Series Metal Industrial Enclosure

CONSTRUCTION

Sheet steel, cold rolled, low carbon

19-Inch Dual Height Modular Mounting Structure (2xMMS)

MASS (EMPTY)

9.08 kg (20 lbs)

MOUNTING

Standard 483 mm (19-inch) rack, vented
I/A Series Metal Industrial Enclosure

CONSTRUCTION

Sheet steel, cold rolled, low carbon

50 Series Product Configuration (Maximum Combined A-, B-, and D-Size Modules per MMS)

Number of B- or D-Size Modules*	Number of A-Size Modules
5	0
4	1
3	1
2	2
1	2
0	3

* B- and D-size modules are approximately the same size.

Table 1. Processor and Module Sizes

Unit	Equipment With This Size	Width	Height	Depth
A-Size Module	Model 50/51, Style A Processors	267 mm (10.5 in)	117 mm (4.6 in)	350 mm (13.75 in)
B-Size Module	B-Size Data Storage Devices	267 mm (10.5 in)	74 mm (2.9 in)	350 mm (13.75 in)
C-Size Processor	Model 51, Style B, B1, and C Processors	493 mm (19.4 in)	78 mm (3.1 in)	413 mm (16.3 in)
D-Size Module	D-Size Data Storage Devices	190 mm (7.5 in)	70 mm (2.8 in)	310 mm (12.2 in)
E-Size Processor	Model 51, Style E Processors ^(a)	190 mm (7.5 in)	450 mm (17.7 in)	498 mm (19.6 in)
	Model H92, P92 and P93 Workstations	190 mm (7.5 in)	426 mm (16.8 in)	447 mm (17.6 in)
F-Size Processor	Model 51, Style D Processors	436 mm (17.1 in)	112 mm (4.4 in)	430 mm (16.9 in)
G-Size	Model P80 Workstation	254 mm (10.0 in)	455 mm (17.9 in)	610 mm (24.0 in)
H-Size	Model P79 Workstation	446 mm (17.5 in)	118 mm (4.6 in)	457 mm (18.3 in)
J-Size	8-Port Fiber Optic or Copper Ethernet Switch	330 mm (13.0 in)	44 mm (1.72 in)	204 mm (8.03 in)
K-Size	Fiber Optic 24-Port Ethernet Switch	441 mm (17.36 in)	45 mm (1.73 in)	207 mm (8.15 in)
L-Size	Fiber Optic 16-Port Ethernet Switch	440 mm (17.0 in)	71 mm (2.8 in)	470 mm (18.5 in)

(a) 70 Series processors are approximately equivalent in size to the Model 51, Style E processors.

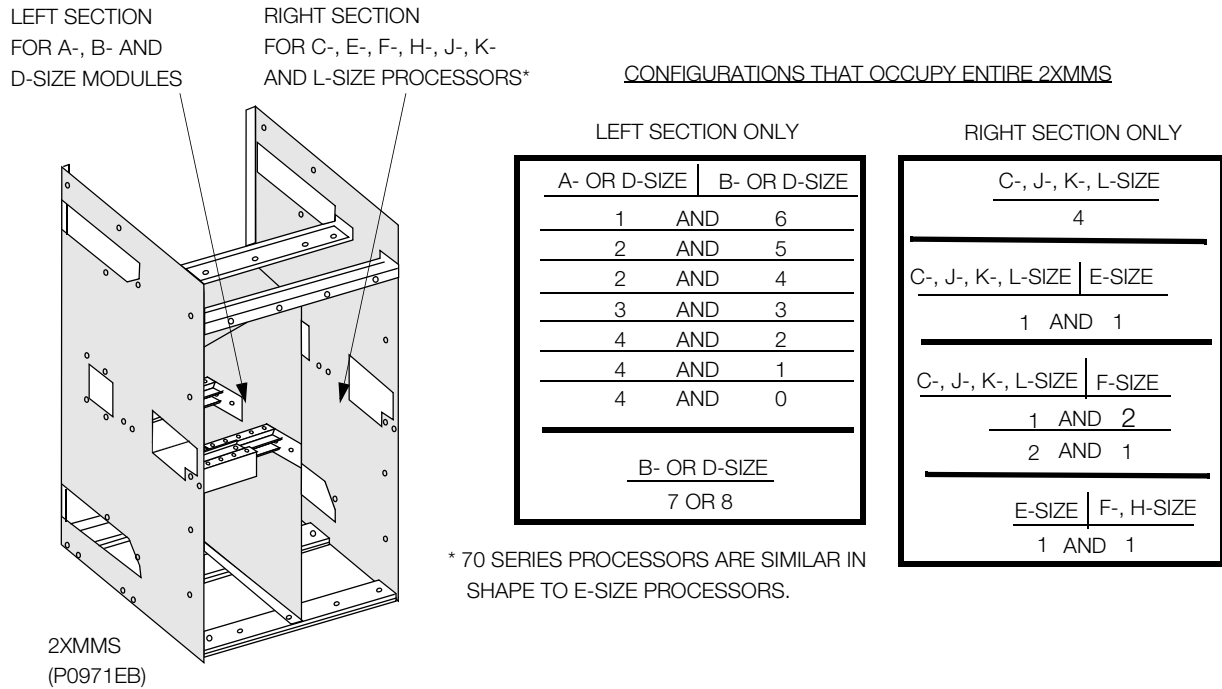


Figure 4. Number of Modules and Processors in 2xMMS in IE16/32 Enclosures - Configuration Options for Entire 2xMMS

CONFIGURATIONS THAT OCCUPY EACH SIDE OF 2XMMS				
LEFT SECTION			RIGHT SECTION	
A- OR D-SIZE		B- OR D-SIZE		C-, J-, K-, L-SIZE
0	AND	6	AND	1
0	AND	5	AND	1
1	AND	4	AND	1
1	AND	3	AND	1
2	AND	2	AND	1
2	AND	1	AND	1
2	AND	0	AND	1
0	AND	4	AND	2
0	AND	3	AND	2
1	AND	2	AND	2
1	AND	1	AND	2
2	AND	0	AND	2
0	AND	2	AND	3
0	AND	1	AND	3

B- OR D-SIZE		E-SIZE
1 OR 2	AND	1

A- OR D-SIZE		B- OR D-SIZE		C-, J-, K-, L-SIZE	F-, H-SIZE
0	AND	4	AND	0 AND 1	
0	AND	3	AND	0 AND 1	
1	AND	2	AND	0 AND 1	
1	AND	1	AND	0 AND 1	
0	AND	2	AND	1 AND 1	
0	AND	1	AND	1 AND 1	
0	AND	2	AND	0 AND 2	
0	AND	1	AND	0 AND 2	

Figure 5. Number of Modules and Processors in 2xMMS in IE16/32 Enclosures - Configurations for Each Side of 2xMMS

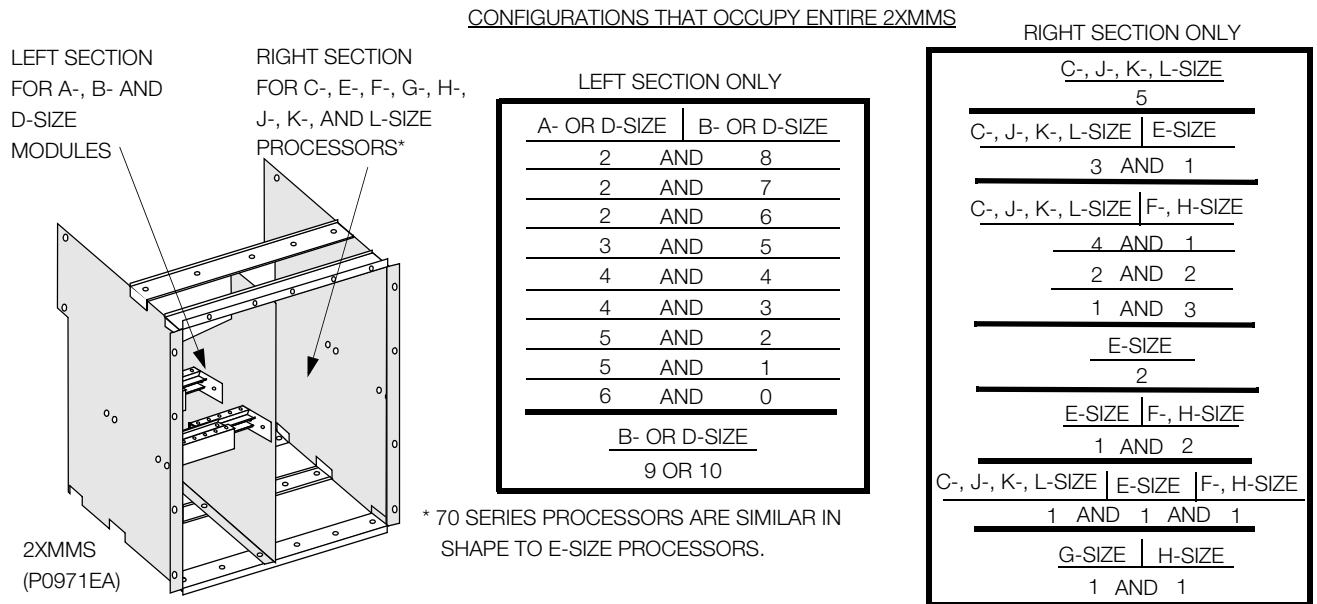


Figure 6. Number of Modules and Processors in 2xMMS in Metal Enclosures - Configurations for Entire 2xMMS

CONFIGURATIONS THAT OCCUPY EACH SIDE OF 2XMMS

LEFT SECTION

RIGHT SECTION

A- OR D-SIZE	B- OR D-SIZE		C-, J-, K-, L-SIZE
0 AND 8	AND		1
0 AND 7	AND		1
1 AND 6	AND		1
2 AND 5	AND		1
2 AND 4	AND		1
3 AND 3	AND		1
4 AND 2	AND		1
4 AND 1	AND		1
4 AND 0	AND		1
0 AND 6	AND		2
0 AND 5	AND		2
1 AND 4	AND		2
2 AND 3	AND		2
2 AND 2	AND		2
3 AND 1	AND		2
4 AND 0	AND		2
0 AND 4	AND		3
0 AND 3	AND		3
1 AND 2	AND		3
1 AND 1	AND		3
2 AND 0	AND		3
0 AND 2	AND		4
0 AND 1	AND		4

A- OR D-SIZE	B- OR D-SIZE		C-, J-, K-, L-SIZE	E-SIZE
0 AND 4	AND		1 AND 1	
0 AND 3	AND		1 AND 1	
1 AND 2	AND		1 AND 1	
1 AND 1	AND		1 AND 1	
2 AND 0	AND		1 AND 1	
0 AND 2	AND		2 AND 1	
0 AND 1	AND		2 AND 1	

B- OR D-SIZE		E-SIZE	F-, H-SIZE
2	AND	1 AND 1	
1	AND	1 AND 1	

LEFT SECTION

RIGHT SECTION

A- OR D-SIZE	B- OR D-SIZE		C-, J-, K-, L-SIZE	F-, H-SIZE
0 AND 6	AND		1 AND 1	
0 AND 5	AND		1 AND 1	
1 AND 4	AND		1 AND 1	
2 AND 3	AND		1 AND 1	
2 AND 2	AND		1 AND 1	
3 AND 1	AND		1 AND 1	
4 AND 0	AND		1 AND 1	
0 AND 4	AND		2 AND 1	
0 AND 3	AND		2 AND 1	
1 AND 2	AND		2 AND 1	
1 AND 1	AND		2 AND 1	
2 AND 0	AND		2 AND 1	
0 AND 2	AND		3 AND 1	
0 AND 1	AND		3 AND 1	
0 AND 2	AND		1 AND 2	
0 AND 1	AND		1 AND 2	

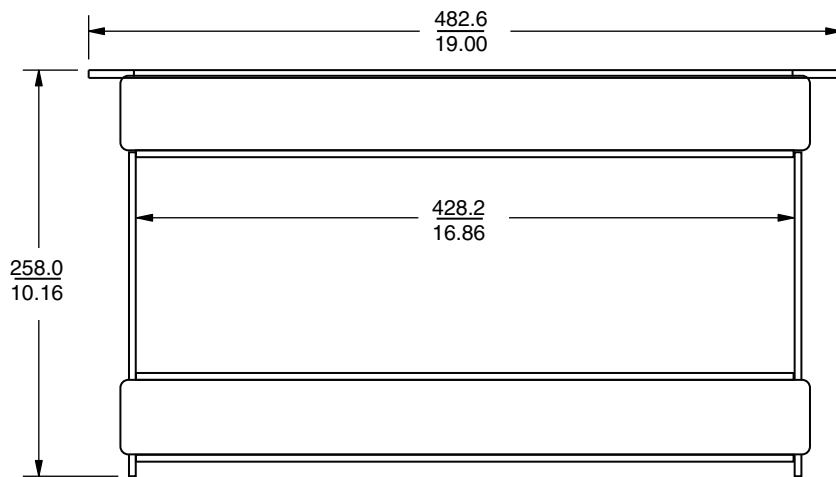
A- OR D-SIZE	B- OR D-SIZE		E-SIZE
0 AND 6	AND		1
0 AND 5	AND		1
1 AND 4	AND		1
2 AND 3	AND		1
2 AND 2	AND		1
3 AND 1	AND		1
4 AND 0	AND		1

A- OR D-SIZE	B- OR D-SIZE		F-, H-SIZE
0 AND 4	AND		2
0 AND 3	AND		2
1 AND 2	AND		2
1 AND 1	AND		2
2 AND 0	AND		2
0 AND 2	AND		3
0 AND 1	AND		3

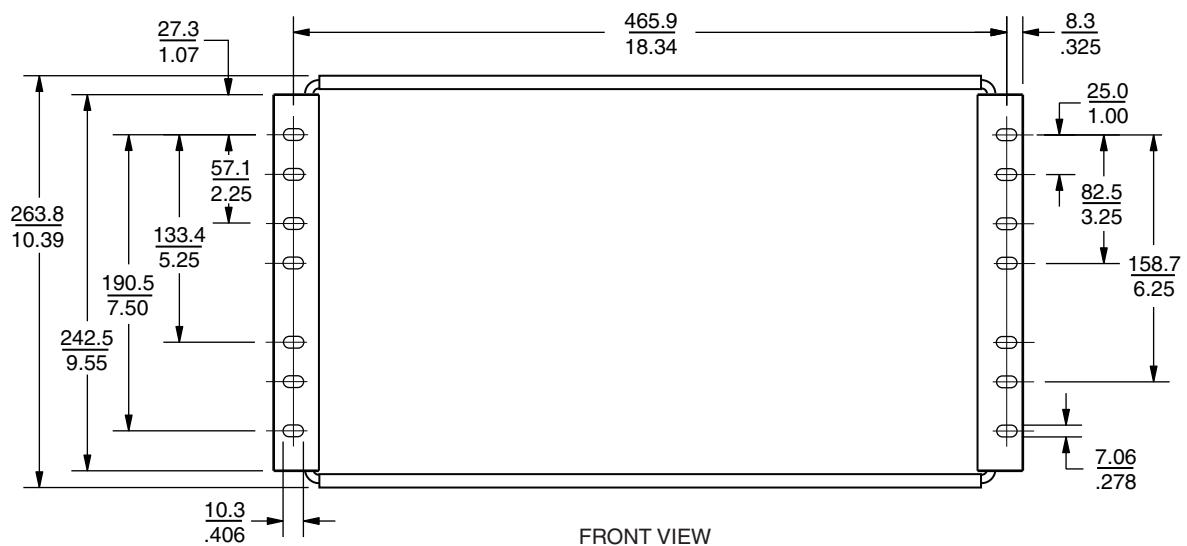
Figure 7. Number of Modules and Processors in 2xMMS in Metal Enclosures - Configurations for Each Side of 2xMMS

**DIMENSIONS – NOMINAL
MODULAR MOUNTING STRUCTURE (MMS)**

**mm
in**



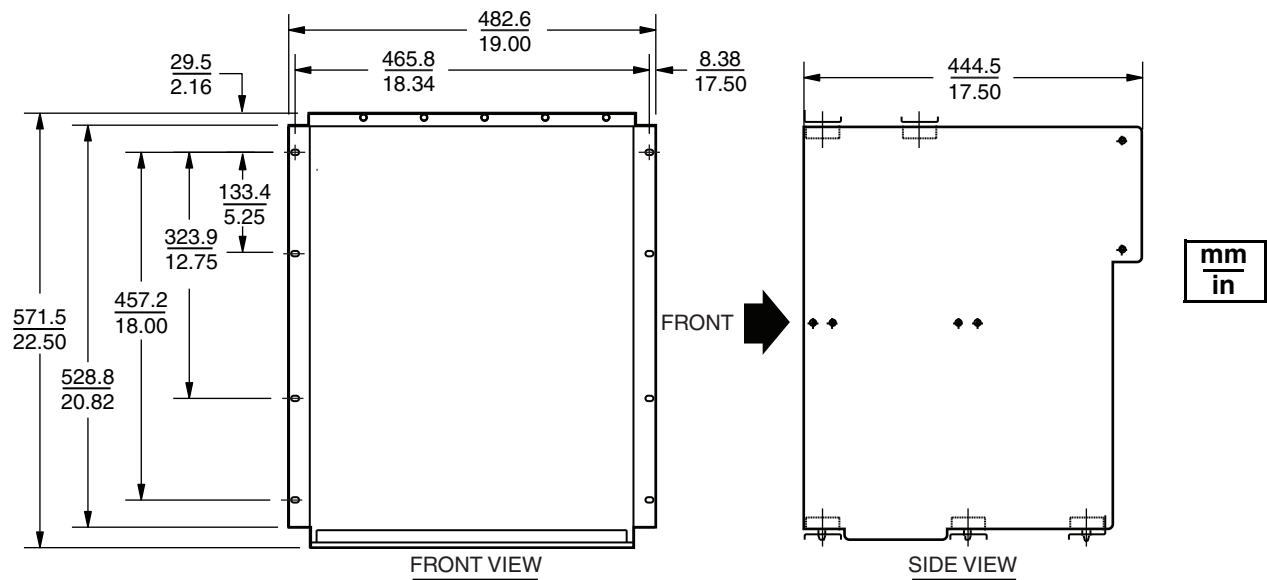
TOP VIEW



FRONT VIEW

DRAWING SHOWN NOT TO SCALE.

2XMMS FOR METAL ENCLOSURES



2XMMS FOR PLASTIC ENCLOSURES

