

Subracks, 2U-9U, 19" - 21HP wide



Subracks



KEY FEATURES

- Modular extruded aluminum design
- For housing custom backplanes and motherboards with front (and/or rear) pluggable modules. (If standard architecture backplane is required, please see our [Enclosures/Systems](#) section.)
- Standard, EMC, Mobile (Industrial Rugged), and Compact designs.
- 2U-4U horizontal-mount subracks.
- 3U, 4U, 6U, 7U, and 9U vertical-mount subracks (for 3U and 6U modules or custom sizes)
- Versatile card guide mounting for various pitch modules (plastic and aluminum card guides available).
- Rear I/O access optional.
- Optional PSU and fan implementations.

INDUSTRIES

- Energy
- Communications
- Industrial
- Medical
- Military/Aerospace
- Railway/Transportation
- Test & Measurement

Pixus offers superior quality and design versatility within a cost-effective solution. Whether you need a simple subrack or a full enclosure with shielding, fan and power options, Pixus' modular designs offer a solution for you.

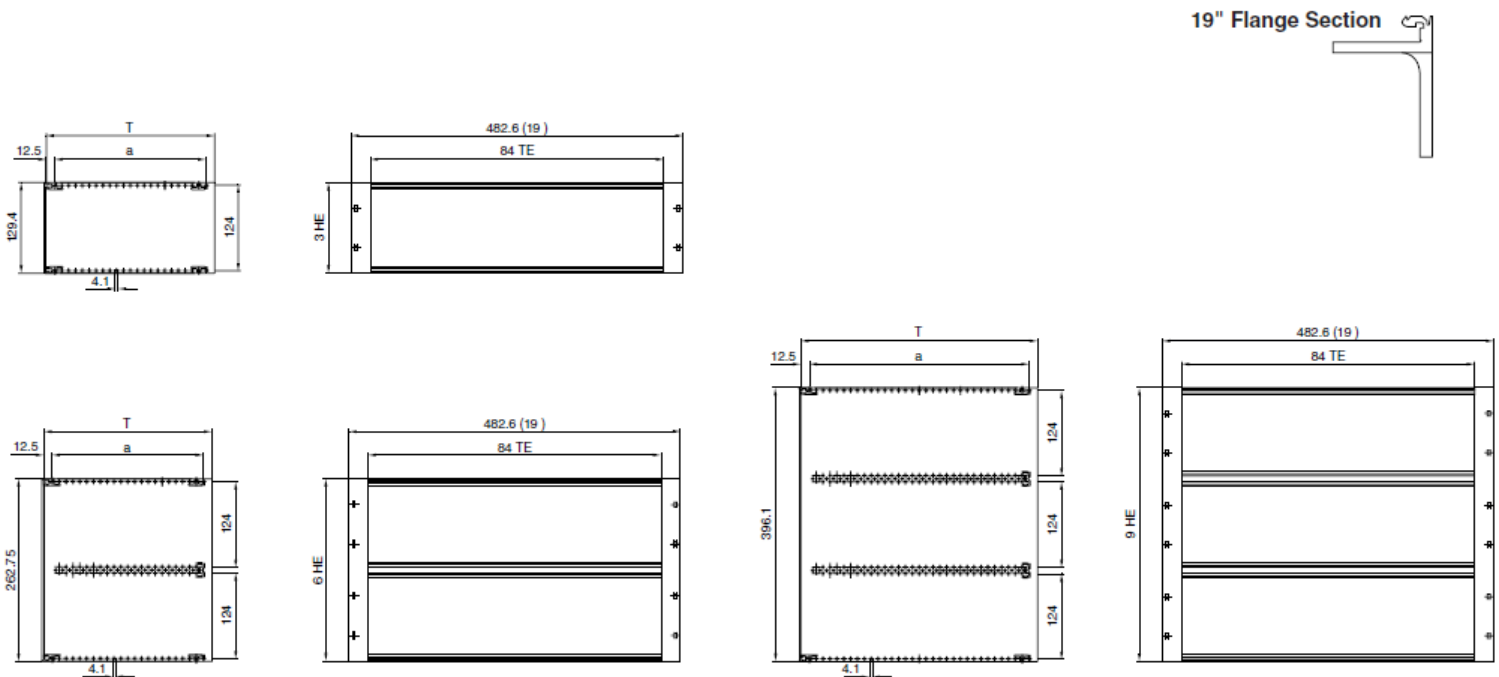
Pixus Technologies can modify this product to meet special customer requirements without NRE (minimum order placement is required).

Subrack, standard and EMC — 3U, 6U



- Standard or EMC shielded enclosures
- 3U and 6U heights standard
- EMC covers for shielding, additional gasketing options are available
- 19" width and 220mm, 280mm, 340mm, and 400mm depths. Standard type also available in 160mm.
- Vibration and shock tested to DIN IEC 68-2-6 test Fc and DIN IEC 68-2-27 test Ea

EMC subracks with perforated top and bottom covers for shielding. Standard 19" rackmount and various widths and depths available upon request.

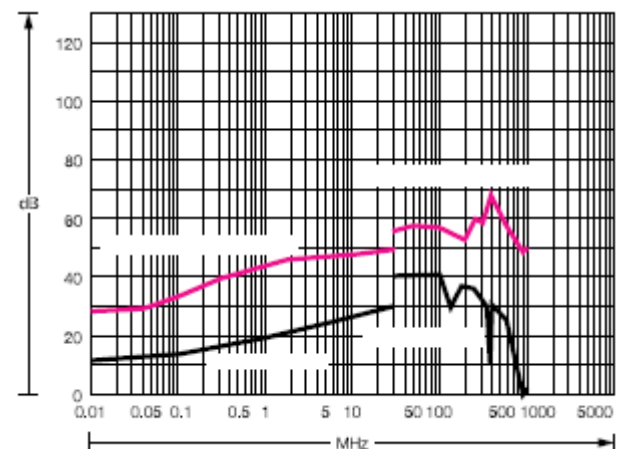


Subrack, standard and EMC — 4U, 7U, 9U

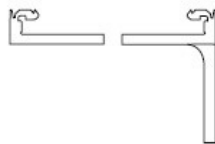


EMC subracks with perforated top and bottom covers for shielding. For plugging of standard 3U, 6U or custom sized modules. Additional 1U to 3U spacing to allow for fan/cooling implementation. Standard 19" rack-mount and various widths and depths available upon request.

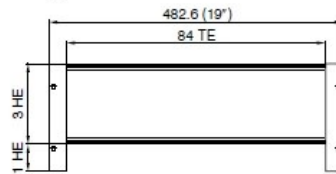
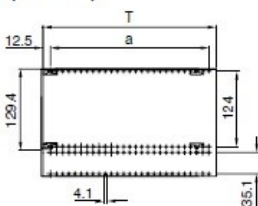
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- 3U and 6U heights standard
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- 19" width and 220mm, 280mm, 340mm, and 400mm depths. Standard type also available in 160mm.
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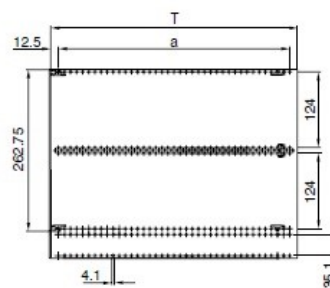
19" Flange/Section/
Rear Trim Section



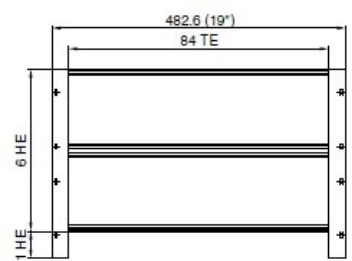
4U
(3U + 1U)



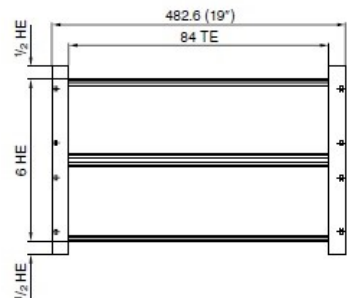
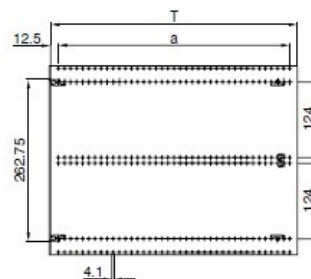
7U
(6U + 1U)



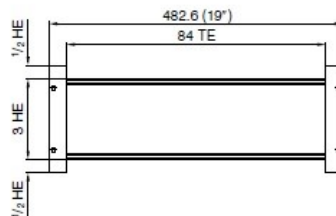
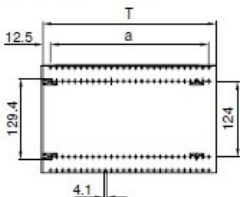
HE = U
TE = HP



7U
(6U + 2 x .5U)



4U
(3U + 2 x .5U)



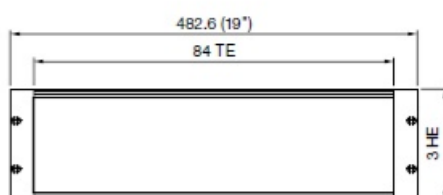
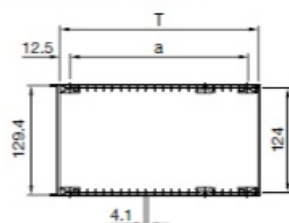
Mobile Subrack — 3U and 6U



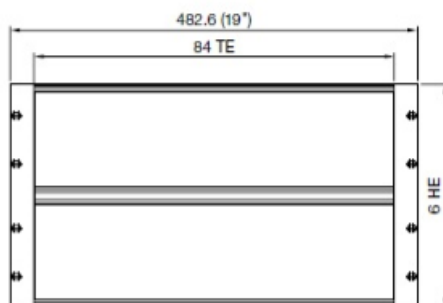
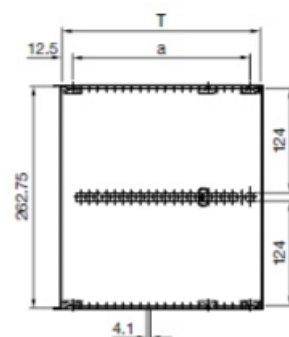
- For mobile or rugged industrial applications
- 3U and 6U heights standard
- 19" width and 245mm depth
- Reinforced, thick extrusions for additional weight, shock, and vibration.
- Vibration and shock tested to DIN IEC 68-2-6 test Fc and DIN IEC 68-2-27 test Ea
- 2.5mm aluminum sheet side panels
- Clear chromate finish
- Designed to DIN 41 494, IEC 60 and IEEE specifications

Rugged subracks with thicker reinforced extrusions designed initially for German railway. Can be used in various rugged, mobile, and transportation

3U (EMC version)



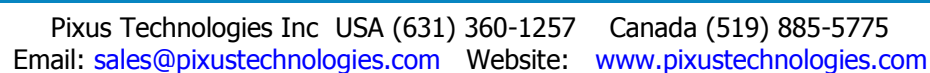
6U (EMC version)



The Mobile Subracks have been tested for use in the German national railway. The test was conducted in accordance to EN 50 155 (electronic equipment for rail vehicles). The configuration of the tested subracks conforms to IEC 61587- 1.

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Special adapter options allow simple rail installation.



Standard Rails—Subrack with Backplane

Front Horizontal Rail (B) With 10 mm Extension For Type IV And VII Injector/Extractor Handle

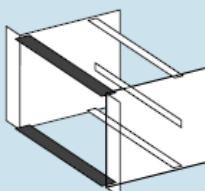
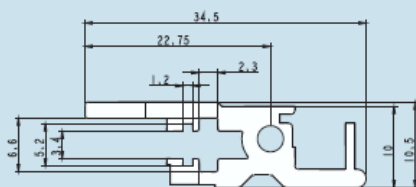


For accommodation of guide rails and securing of front panels.

- Front projection and hole pattern based on IEEE 1101.10 when using type IV and VII injectors/extractors
- HP pitch pattern of holes for exact mounting of guide rails
- M 4 thread at ends
- Straight-through core hole
- Horizontal rail 192HP for cutting to length

Usable width (HP)	Packs of
40	1
42	1
63	1
84	1
84	2
192	1

¹⁾ Including 4 assembly screws



Material:
Extruded aluminum

Surface Finish:
Clear chromated
²⁾Flash anodized

Rear Horizontal Rail (C1)

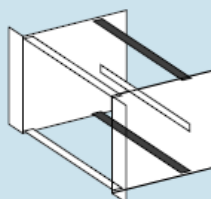
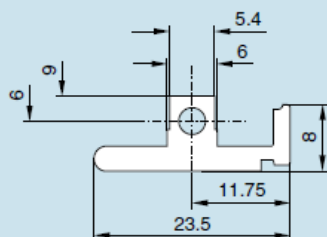


For accommodation of guide rails and securing of Z rails, insulating or contact strips.

- HP pitch pattern of holes for precise installation of guide rails
- M 2.5 for fastening the Z rails, insulating or contact strips and backplanes
- M4 thread at ends
- Straight-through core hole
- Horizontal rail 192HP for cutting to length

Usable width (HP)	Packs of
21	1
40	1
42	1
63	1
84	1
84	2
192	1

¹⁾ Including 4 assembly screws



Material:
Extruded aluminum

Surface Finish:
Clear chromated
²⁾Flash anodized

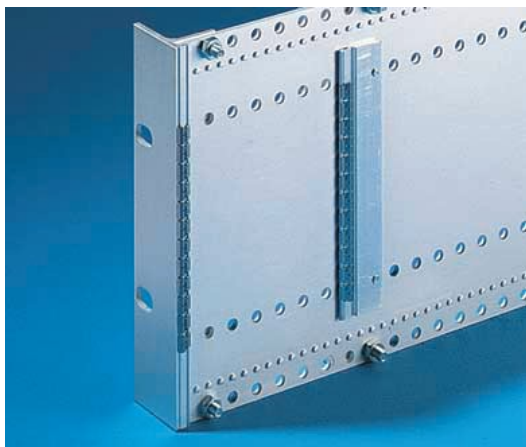
Subrack Components



Side panels



Z-rail



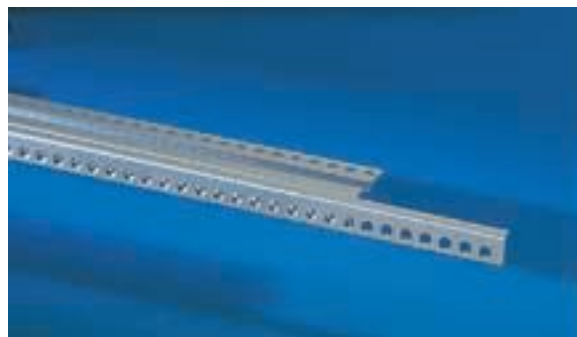
EMC gasket strip



Threaded insert



Divider kit example—6U divided to 3U



Conductive backplane strip

(Click on the photos to link to that section on the Web site)

Ordering Options

BXX-THHW-DR-CBSC-FWP

B = Backplane Type



CompactPCI, cPCIe -- see [CompactPCI Chassis](#) section on Web
 AdvancedTCA -- see [AdvancedTCA Chassis](#) section on Web
 VME, VPX, VXS -- see [VME/VPX Chassis](#) section on Web
 MicroTCA -- see [MicroTCA Chassis](#) section on Web
 No backplane -- See [Instrumentation Cases](#) section on Web or call factory
 Power backplane = A
 3U Custom backplane = B
 6U Custom backplane = C
 Other size Custom backplane = D

XX = Backplane Slots

01-21 = ("01" = 1 slot, "21" = 21 slots)

T = Type



Standard (19" rackmount) = 1
 EMC (19" rackmount) = 2
 Mobile (19" rackmount -- rugged industrial, railway) = 3
 Compact = 4 (21T or 42T widths only)
 MIL Rugged -- see Rugged enclosures section

HH = Height

<u>vertical mount</u>
3U = 3C
4U (for plugging 3U boards plus 1U for fan tray) = 4C
6U = 6C
7U (for plugging 3U boards plus 1U for fan tray) = 7C
9U = 9C
<u>horizontal mount</u>
2U = 2H
3U = 3H
4U = 4H

(Horizontal mount plugs 6U boards with provisions for (2x) 3U)

W = Width

21T = A (Compact Enclosure Type only)
 42T = B
 84T (19") = C

(19" [84T] models automatically include rack mounting flanges)

Ordering Options

BXX-THHW-DR-CBSC-FWP

D = Depth—Front pluggable module

160mm = 6 (Standard, Compact)
220mm = 2 (Standard, EMC, Mobile, Compact)
280mm = 8 (Standard, EMC)
340mm = 4 (Standard, EMC)
400mm = 0 (Standard, EMC)
(enclosure total depth typically 25-65mm beyond max module lengths above)

R = Rear I/O Access

80mm = A
160mm = B
Other depth = C
Not required = X

(Rear I/O includes card guides and mounting for pluggable modules)

C = Top Cover



vented top cover = A
non-vented top cover = B
no cover = X

B = Bottom Cover

vented top cover = Y
non-vented top cover = Z
no cover = X

S = Backplane Insulating/Conductive strips



Insulated strip = I
Conductive strip = C
None = X

C = Front carry handles (subrack)



Yes = Y
No = X

Ordering Options

BXX-THHW-DR-CBSC-FWP

F = Standard Fan Tray



Yes = Y

No = X

If Yes, contact Pixus to specify requirement

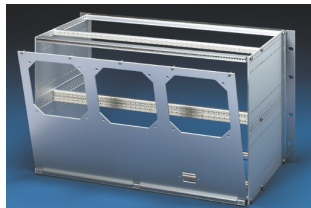
W = Power Supply

Yes = Y

No = X

If Yes, contact Pixus to specify requirement

P = Panels — Front/Rear, Board or Filler



Yes = Y

No = X

If Yes, contact Pixus to specify requirement

Example Configuration

For a 6U Custom Backplane, 12 slots, EMC Subrack, 6U Height, 84HP width, 280mm depth, no I/O required, vented top and bottom covers, insulated strip, carry handles, fan tray, power supply, and filler panels = part number C12-26CC-8X-AYIY-YYY