

Voltage Regulation Module (VRM) Connectors (Continued)



VR 372 Power POD Connector for Intel MONTECITO VRMs

- Industry favored design for MONTECITO VR372 voltage regulator modules
- 130 Amps DC Output Power (260A Total)
- 350 compressive contacts carry a total of 200 Amps — resulting in less than 0.75 Amps per contact
- 22 additional signal contacts
- Rated to carry 120 Amps DC output power
- Maximum continuous operating temperature 125° C



Mini CROWN EDGE Connectors for 1U/2U Pluggable VRMs

- Lowest profile available on the market (7 mm tall)
- High-performance CROWN BAND contacts that deliver 25A each
- High-density power designed for VRM 10.2 and beyond
- Multiple power and signal contacts allow flexible power PCB trace layouts
- SMT, pc tail and press-fit terminations
- Mating blade for board-stacking interconnection also available



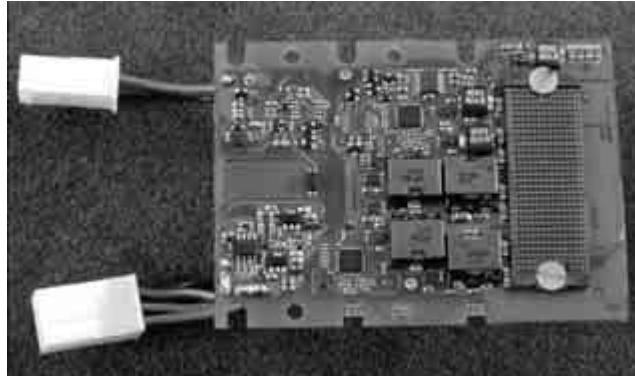
SEC-II with Latch for VRMs

- High Conductivity Contacts & High Strength Plastic Latches
- Vertical or Right-Angle
- Solder or Press-Fit (vertical only)
- Meets Intel VRM 8.5, 9.0, 9.1, 10.0 and 10.1 Standards
- 4.3 Amps/contact

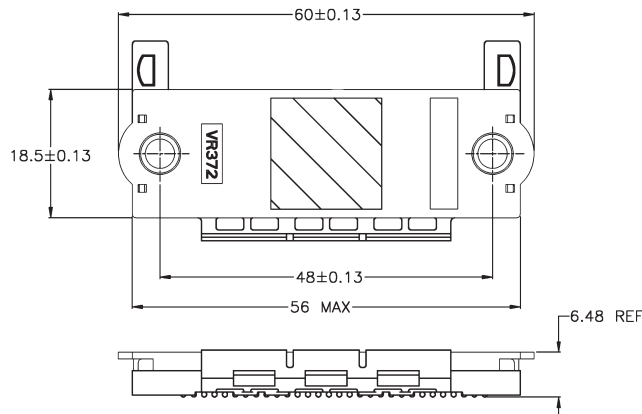
MONTECITO is a trademark of Intel Corporation.

Other VRM Connectors such as “TW Power” and others are available.
Please contact your local Tyco Electronics Sales Engineer for more information.

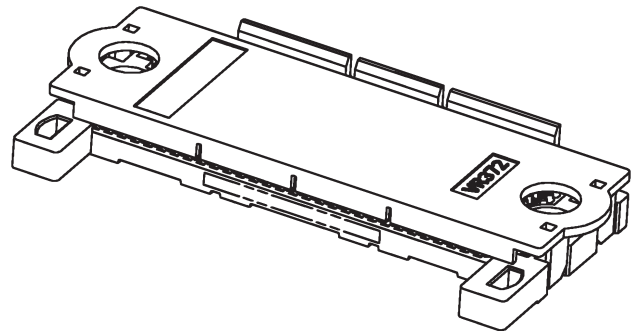
VR 372 Power POD Connector — for Intel MONTECITO VRMs



MONTECITO Voltage Regulator Module



Socket Assembly with Cover
Reference Dimensions



Socket Assembly with Cover

Material

Housing — Liquid Crystal Polymer (LCP), 94V-0

Colors

Plugs and Receptacles — Black
Positive Locks — White

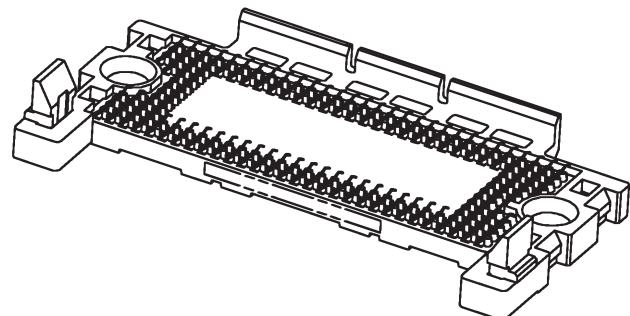
Technical Documents

Product Specification

108-2170

Application Specification

114-13117



Socket Assembly with Alignment Plugs
Alignment Plug Snap-On: Part Number 1761259-1

MONTECITO is a trademark of Intel Corporation.

Note: All part numbers are RoHS compliant.

Mini CROWN EDGE Connector Configurations

General Dimensions

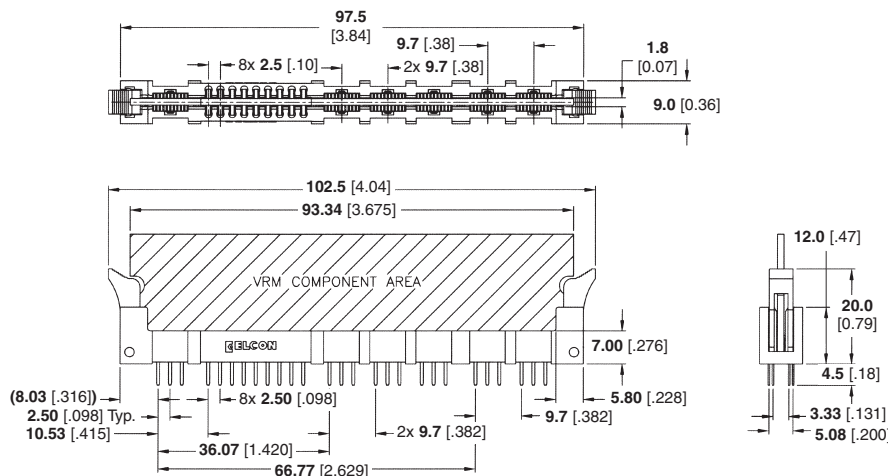
Mini CROWN EDGE connectors are available in several form factors designed to meet diverse application requirements. For other available Mini CROWN EDGE Connector configurations, please check our website at <http://www.tycoelectronics.com> or consult Tyco Electronics.

Configuration: P2/S18/P10

Meets Intel VRM 10.2 specifications
Power contacts x 12
Signal contacts x 18
Mating board thickness — 0.062"

Reference Part Numbers:

Solder tail, 4.5 mm (0.18")
Part Number 1651826-1
Solder tail, 3.0 mm (0.12")
Part Number 1651929-1
Surface-Mount
Part Number 1766336-1
Compliant Press-fit 3.8 mm (0.15")
Part Number 1766436-1

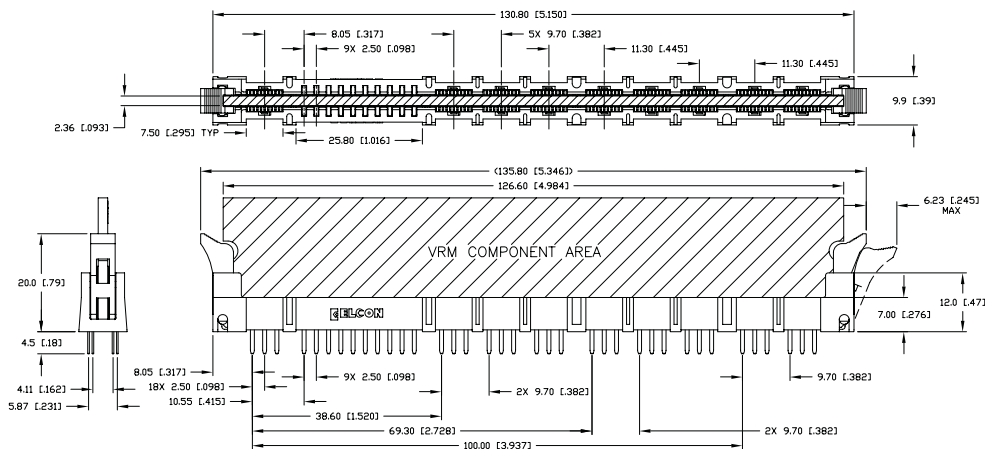


Configuration: P2/S20/P16

Meets AMD K8 specifications
Power contacts x 18
Signal contacts x 20
Mating board thickness — 0.093"

Reference Part Numbers:

Solder tail, 4.5 mm (0.18")
Part Number 1766442-1
Solder tail, 3.0 mm (0.12")
Part Number 1651864-1
Compliant Press-fit 3.8 mm (0.15")
Part Number 1766443-1



Note: All part numbers are RoHS compliant.

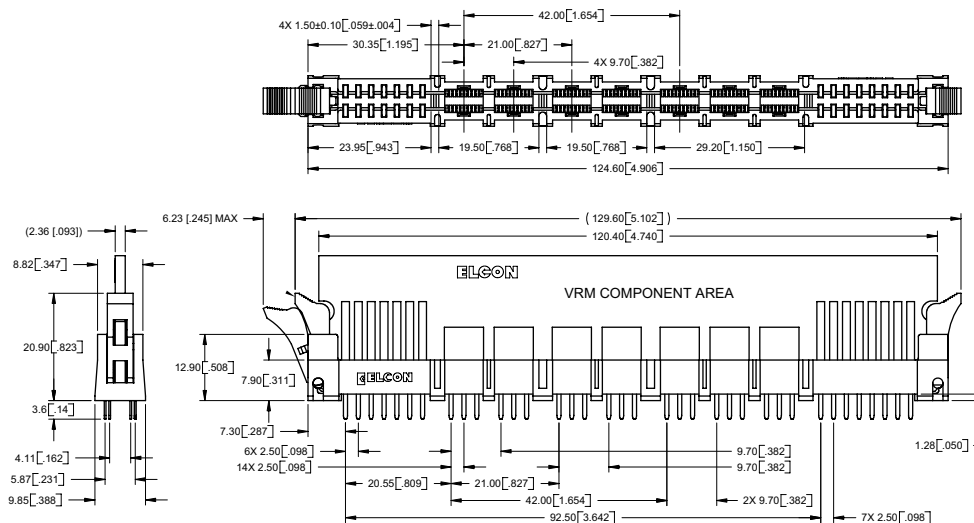
Mini CROWN EDGE Connector Configurations (Continued)

Configuration: S14/P14/S16

Meets AMD K9 specifications
Power contacts x 14
Signal contacts x 30
Mating board thickness — 0.093"

Reference Part Numbers:

Solder tail, 4.5 mm (0.18")
Part Number 1766308-1

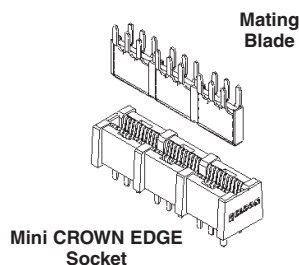


Configuration	Part Number	Overall Length	Mating Board Thickness	Tail Length	Type
P2/S24/P4	1926155-2	63.74 mm [2.509"]	1.57 mm [0.06"]	N/A	Surface-Mount
P2/S24/P8	1926024-2	83.14 mm [3.273"]	1.57 mm [0.06"]	N/A	Surface-Mount
P2/S18/P10	1651826-1	102.50 mm [4.040"]	1.57 mm [0.06"]	4.5 mm [0.18"]	Solder Tail
	1651929-1			3.0 mm [0.12"]	Solder Tail
	1766336-1			N/A	Surface-Mount
	1766436-1			3.8 mm [0.15"]	Compliant Press-Fit
P2/S24/P12	1766735-2	102.54 mm [4.037"]	1.57 mm [0.06"]	N/A	Surface-Mount
S14/P14/S16	1766308-1	129.60 mm [5.102"]	2.36 mm [0.09"]	4.5 mm [0.18"]	Solder Tail
	1766442-1			4.5 mm [0.18"]	Solder Tail
P2/S20/P16	1651864-1	135.80 mm [5.346"]	2.36 mm [0.09"]	3.0 mm [0.12"]	Solder Tail
	1766443-1			3.8 mm [0.15"]	Surface-Mount

Application without latches and custom layouts are available. Please contact Tyco Electronics Customer Service or your local sales engineer.

OTHER Applications

A mating blade that allows certain Mini CROWN EDGE Connector configurations to be used as a stacked board power interconnection device is also available.



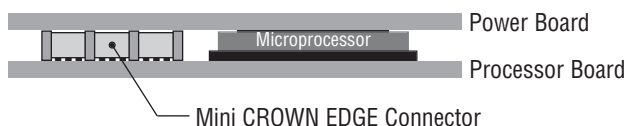
Shown: P6

Socket Part Number 1766685-1 (Solder Tail)
6651712-1 (SMT)

Blade Part Number 6651711-1 (Solder Tail)
1926785-1 (SMT)

Sample of Stacked Board Application

In this application, a Mini CROWN EDGE connector is used in close proximity to the MPU for delivery of high-current from a power board stacked over the processor board.

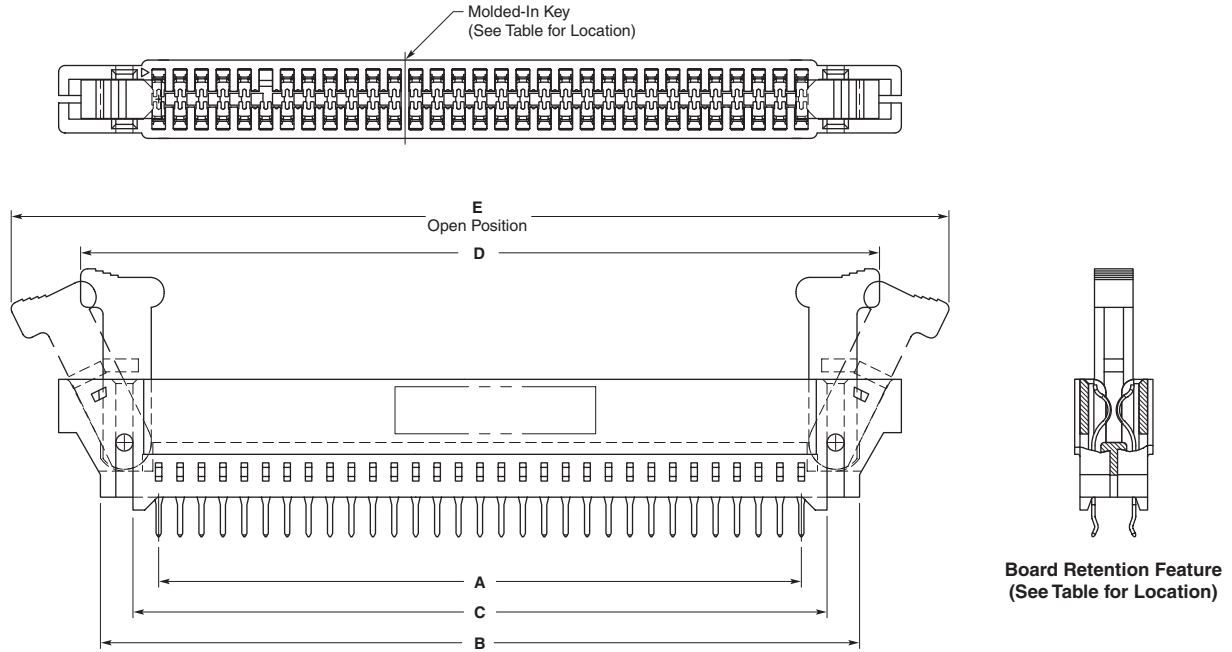


Custom Layouts:

Shown above are some of the currently tooled Mini CROWN EDGE connector layouts. If none of them meets your application requirements, Tyco Electronics can design a custom layout based on your specifications.

Note: All part numbers are RoHS compliant.

SEC-II Connectors with Latches for VRMs



Material

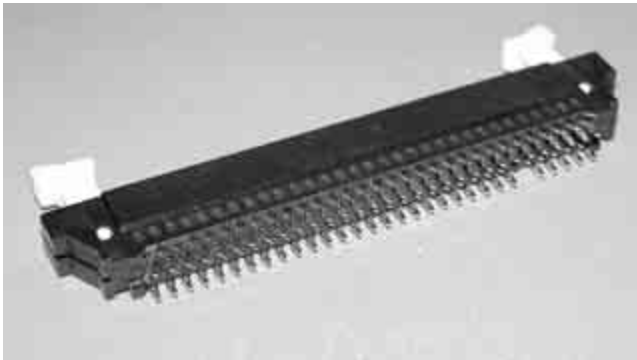
Housing — Black glass-filled polyester

Latch — Black glass-filled polyester

Contact — Phosphor bronze, plated
.000030 [0.00076] min. gold plating in
contact area, .000100 [0.00254] min. tin
on solder posts, all over .000050
[0.00127] min. nickel

Dimensions					No. of Dual Positions	Mount Type	Board Retention Feature	Molded Key Locations	Part Number
A	B	C	D	E					
2.000 60.96	2.944 74.78	2.649 67.28	3.223 81.86	3.849 97.76	25	Press-Fit	No	17 & 18	6489649-1
3.249 82.52	3.544 90.02	3.249 82.52	3.823 97.10	4.449 113.00	31	Solder	Yes	12 & 13	6489165-6
3.400 86.36	3.944 100.18	3.649 92.68	4.130 104.90	4.850 123.17	35	Solder	No	23 & 24	5145459-5

Note: See customer drawing for board retention locations.



Note: All part numbers are RoHS compliant.