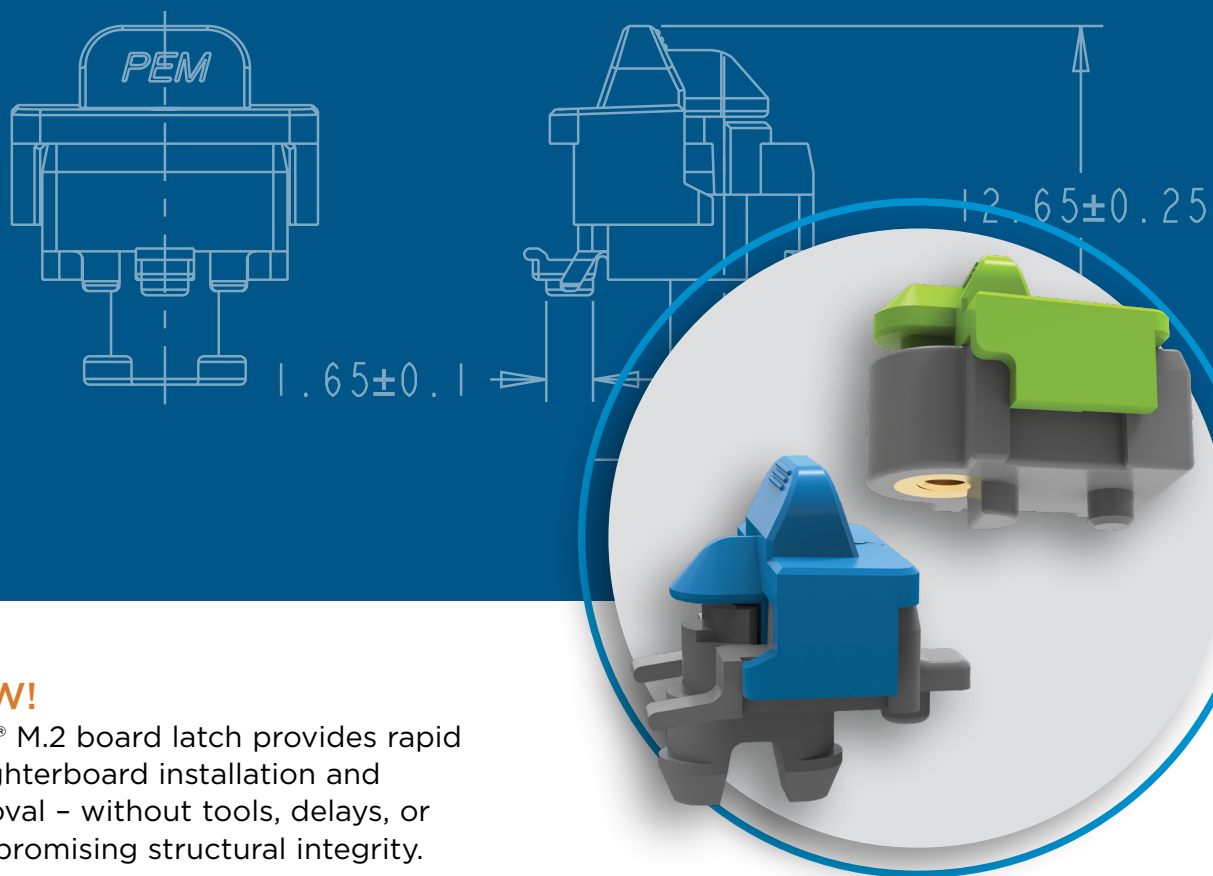




M2L™

M.2 BOARD LATCH



NEW!

PEM® M.2 board latch provides rapid daughterboard installation and removal – without tools, delays, or compromising structural integrity.

The PEM® M.2 Board Latch is designed specifically for M.2 SSD applications in datacom servers.

The tool-less connector provides quick, secure attachment of daughterboards to motherboards through an intuitive one-press mechanism that locks and releases with speed and simplicity.

Available in 3 mounting options – press-fit, rotary latch, and screw-fastening – the M.2 Board Latch adapts to specific application requirements with tool-free convenience that speeds up assembly and serviceability.

The M.2 Board Latch also supports multiple M.2 module sizes and lengths – allowing for quick adjustment of mounting positions that fit different board configurations without the need for extra hardware.

For extra protection of sensitive electronics, the M.2 Board Latch also incorporates lightweight and heat-resistant plastic components that eliminate short-circuit risks on PCBAs.

The M.2 Board Latch can also be customized to match company brand colors or unique system design features.

Fastener drawings and models are available at www.pemnet.com.

Custom sizes are available on special order. [Contact us](#) for more information.

Target Markets and Applications

Datacom Server Platforms

The M.2 Board Latch is built for high-performance datacom server applications where M.2 SSDs provide critical storage and caching functionality.

Cloud Infrastructure

The M.2 Board Latch's tool-free design speeds up deployment velocity, reduces maintenance costs, and improves efficiency across large-scale infrastructure.

AI and Machine Learning Systems

The M.2 Board Latch allows for rapid installation and replacement of M.2 modules in GPU servers and AI accelerator platforms. This reduces downtime when storage upgrades or replacements are needed.

Edge Computing Platforms

Edge computing brings processing power closer to data sources, often in remote or challenging environments. These deployments benefit from the M.2 Board Latch's simplified maintenance profile.

High-Density Storage Servers

Storage-optimized servers pack maximum capacity into tight rack space. The M.2 Board Latch's space-efficient design and support for different sizes delivers higher storage density and provides fast serviceability.

Embedded and Industrial Computing

Industrial and embedded applications often require M.2 storage in environments with shock, vibration, and thermal stress. The durable construction and reliable retention force of the M.2 Board Latch make it a smart fit for these applications.

Fastener drawings and models are available at www.pemnet.com.

Custom sizes are available on special order. [Contact us](#) for more information.

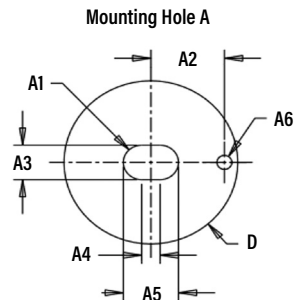
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M2LS™ PRESS-FIT BOARD LATCH

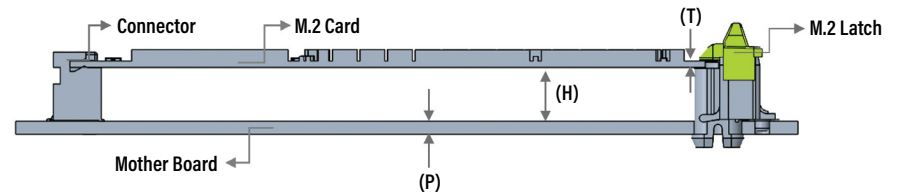
- Tool-less installation
- Quick assembly time
- Single press automatic locking
- Reliable, vertical-block structure
- Flexible maintenance
- User friendly design



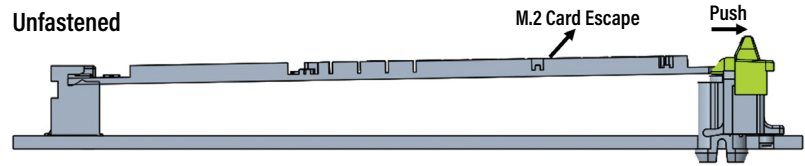
Snap-in



Fastened



Unfastened



Part Number Designation

M2L	S	08	-	200	390 - 375C
Type	Installation Code	M.2 Card Thickness (T) Code		MB Thickness (P) Code	Board to Board Gap (H) Code
					Color Code

All dimensions are in millimeters.

		M.2 Card		Motherboard								
Metric	Part Number	Thickness (T) ±0.08	Board to Board Gap (H) Nom.	Mounting Hole A						Material	Thickness (P) ±0.15	Installation Area Min. ØD
				A1 Nom.	A2 ±0.05	A3 +0.1	A4 ±0.05	A5 +0.1	A6 ±0.05			
	M2LS08-160660-U	0.8	6.6	1.6	5.45	3.2	2.7	5.9	1.8	P.C. Board	1.6	16
	M2LS08-200390-375C	0.8	3.9	1.6	6.4	3.2	1.6	4.8	1.3	P.C. Board	2	16
	M2LS08-240660-375C	0.8	6.6	1.6	6	3.2	1.6	4.8	2.2	P.C. Board	2.4	16
	M2LS08-200250-1585C	0.8	2.5	1.6	5.45	3.2	2.7	5.9	1.8	P.C. Board	2	16
	M2LS08-235390-U	0.8	3.9	1.6	6.4	3.2	1.6	4.8	1.3	P.C. Board	2.35	16

Material and Finish

Cover: Plastic (Pantone Color customization)

Spring: 300 Series Stainless Steel, Natural Finish

Base: Plastic (Color customization)

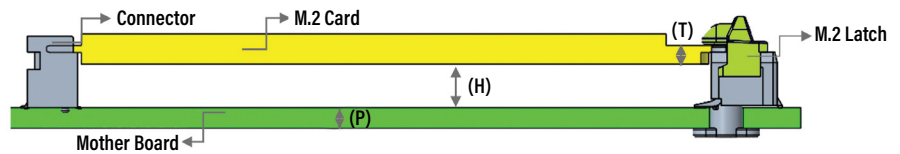
M2LR™ ROTARY BOARD LATCH

- Tool-less installation
- Quick assembly time
- Single press automatic locking
- Reliable, vertical-block structure
- Flexible maintenance
- User friendly design

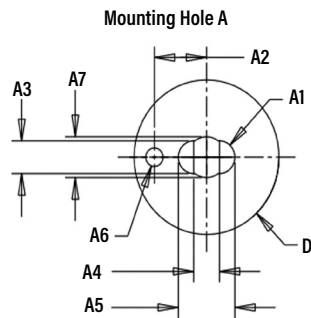
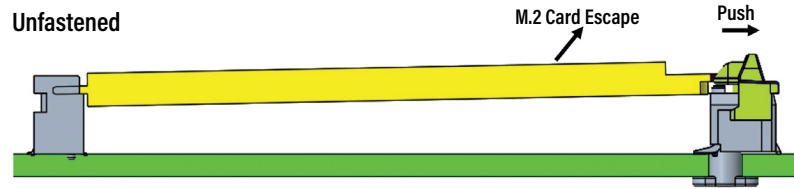


Press-in and rotate 90°

Fastened



Unfastened



Part Number Designation

M2L	R	08	-	250	504	-	375C
Type	Installation Code	M.2 Card Thickness (T) Code		MB Thickness (P) Code	Board to Board Gap (H) Code		Color Code

All dimensions are in millimeters.

		M.2 Card		Motherboard									
Metric	Part Number	Thickness (T) ±0.08	Board to Board Gap (H) Nom.	Mounting Hole A							Material	Thickness (P) ±0.15	Installation Area Min. ØD
				A1 Nom.	A2 ±0.05	A3 +0.1	A4 ±0.05	A5 +0.1	A6 ±0.05	A7 +0.1			
	M2LR08-250504-U	0.8	5.04	1.6	5.45	3.2	2.7	5.9	1.8	4	P.C. Board	2.5	16
	M2LR08-365504-U	0.8	5.04	1.6	5.45	3.2	2.7	5.9	1.8	4	P.C. Board	3.65	16
	M2LR08-240645-375C	0.8	6.45	1.6	—	3.2	4.8	8	—	4	P.C. Board	2.4	16
	M2LR08-245500-375C	0.8	5	1.6	5.45	3.2	2.7	5.9	1.8	4	P.C. Board	2.45	16
	M2LR08-250504-2172C	0.8	5.04	1.6	5.45	3.2	2.7	5.9	1.8	4	P.C. Board	2.5	16

Material and Finish

Cover: Plastic (Pantone Color customization)

Spring: 300 Series Stainless Steel, Natural Finish

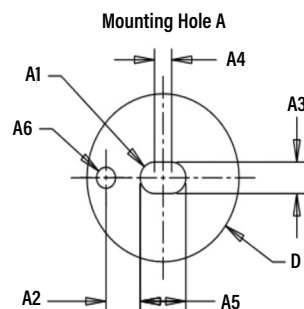
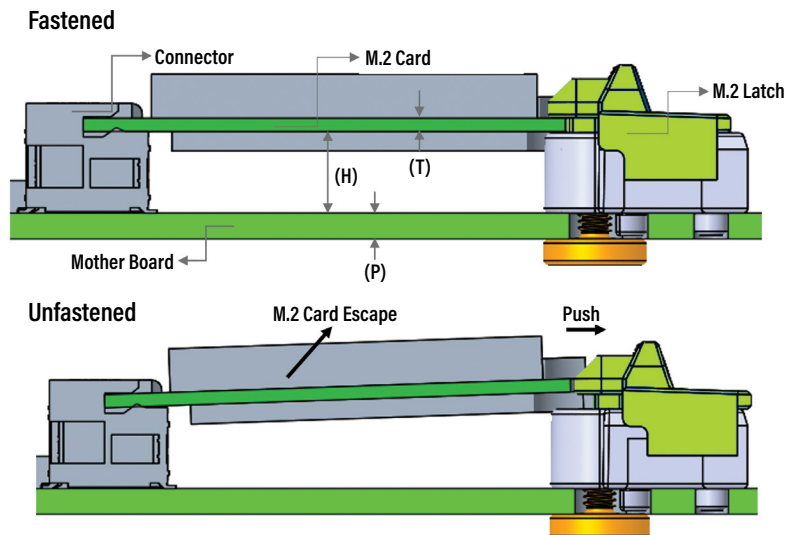
Base: Plastic (Color customization)

M2LT™ SCREW FASTENING BOARD LATCH

- Tool-less installation
- Quick assembly time
- Single press automatic locking
- Reliable, vertical-block structure
- Flexible maintenance
- User friendly design



Screw in thread



Part Number Designation

M2L	T	08	-	160	490	-	375C
↓	↓	↓		↓	↓		↓
Type	Installation Code	M.2 Card Thickness (T) Code		MB Thickness (P) Code	Board to Board Gap (H) Code		Color Code

All dimensions are in millimeters.

		M.2 Card		Motherboard								
Metric	Part Number	Thickness (T) ±0.08	Board to Board Gap (H) Nom.	Mounting Hole A						Material	Thickness (P) ±0.15	Installation Area Min. ØD
				A1 Nom.	A2 +0.05	A3 +0.1	A4 ±0.05	A5 +0.1	A6 +0.1			
		M2LT08-160490-375C	0.8	4.9	—	3.6	3	—	4.8	2	P.C. Board	2.5

Material and Finish

Cover: Plastic (Pantone Color customization)

Spring: 300 Series Stainless Steel, Natural Finish

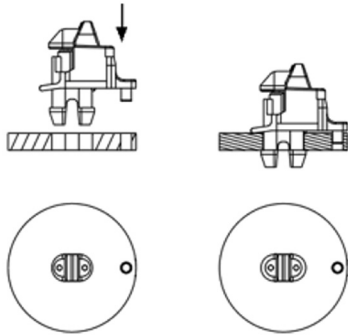
Base: Plastic (Color customization)

Nut: Brass

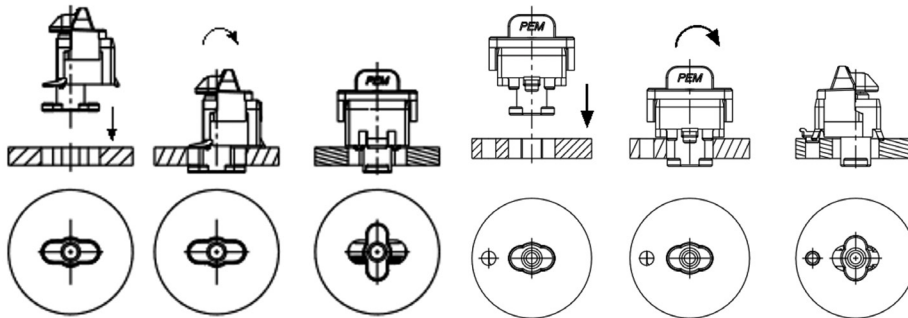
Installation

1. Prepare the panel with the specified hole size.
2. Press the fasteners into the corresponding panel holes.
3. Install according to fastener type:
 - M2LS: Installation is complete upon press-fit.
 - M2LR: After press-fit, rotate 90° to lock.
 - M2LT: Secure with the specified screw.
4. Insert the M.2 solid-state drive into the slot on the fastener head.

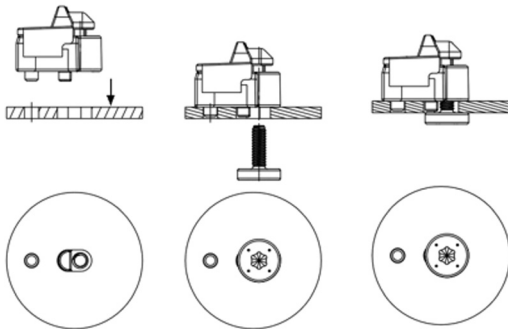
M2LS Snap-in



M2LR Press-in and Rotate



M2LT Secure with Screw



Color Capabilities



All PEM® products meet our stringent quality standards. If you require additional industry or other specific [quality certifications](#), special procedures and/or part numbers are required. Please contact your local sales office or representative for further information.

Regulatory [compliance information](#) is available in Technical Support section of our website. Specifications subject to change without notice. See our website for the most current version of this bulletin.



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