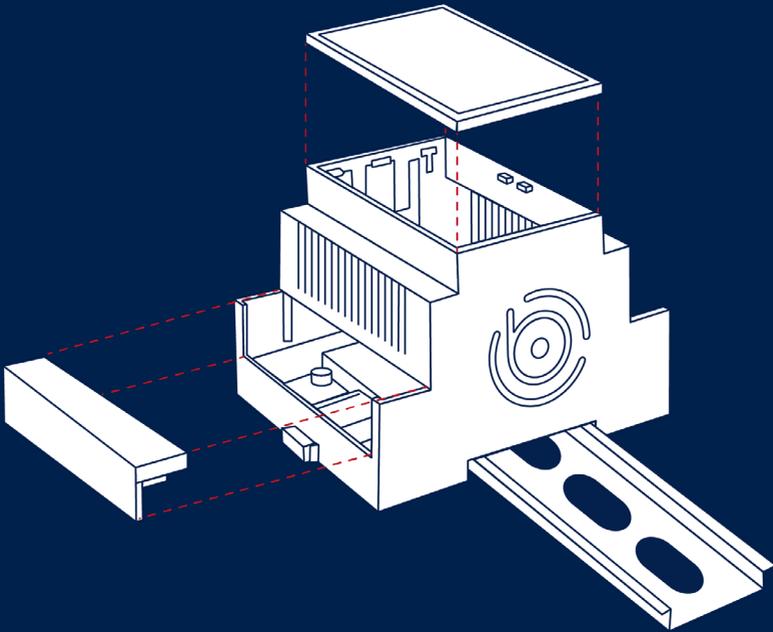CAMDENBOSS®

CONNECT. ENCLOSE. INNOVATE.

# THE CAMDENBOSS GUIDE TO CHOOSING A
# DIN RAIL ENCLOSURE

YOUR CNMB, YOUR WAY

# YOUR CNMB, YOUR WAY

The modular CNMB range offers a comprehensive and flexible design solution, perfect for today's evolving IoT market. The CNMB is moulded in UL94-V0 polycarbonate and has eight size options. Select from vented or extended wall enclosures and open/solid top options. The CNMB provides solutions for DIN Rail mounted PCB's, drive and control applications and IoT modules. Open sides allow for easy terminal connections; perfect for components such as RJ45 sockets and board mounted connectors.

Our step by step guide and product selection table makes choosing your CNMB easier.

## 1 Possible PCB positions
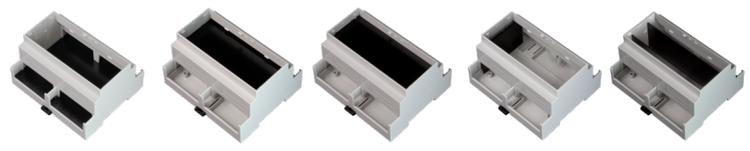
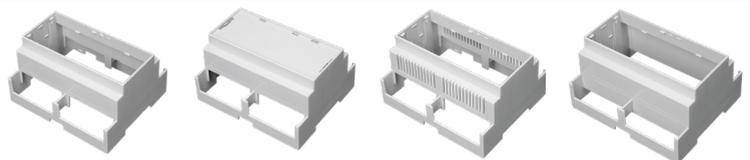| Horizontal PCB position **A** | Horizontal PCB position **B** | Horizontal PCB position **C** | Vertical PCB position **D** | Vertical PCB position **E** |

## 2 Choose your body length

CNMB/1 17.5mm
CNMB/2 36mm
CNMB/3 53.4mm
CNMB/4 71.2mm
CNMB/5 88mm
CNMB/6 106.2mm
CNMB/9 159.2mm
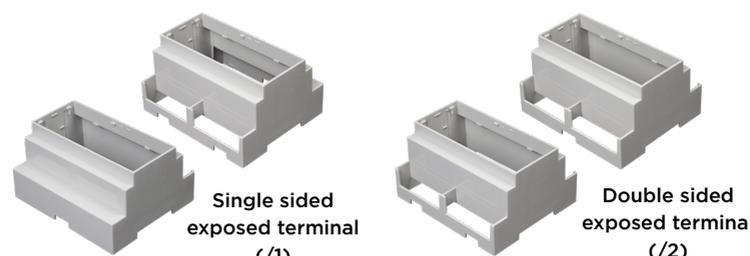CNMB/12 212.1mm

## 3 Choose your body type

Standard
Solid top (ST)
Vented (V)
Extended wall (W)

## 4 Choose the exposed terminal position

Single sided exposed terminal (/1)
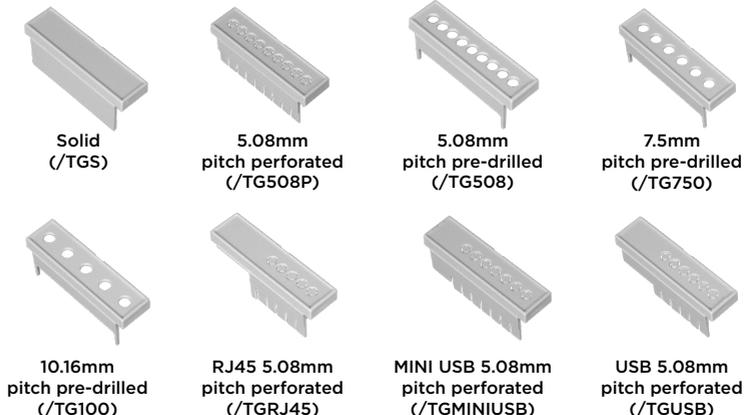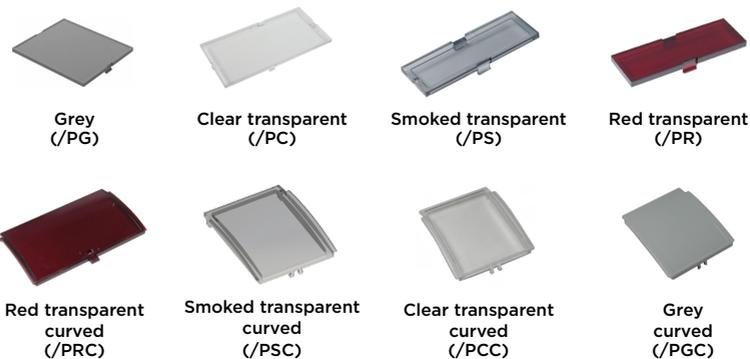Double sided exposed terminal (/2)

## 5 Choose your terminal guards

Solid (/TGS)
5.08mm pitch perforated (/TG508P)
5.08mm pitch pre-drilled (/TG508)
7.5mm pitch pre-drilled (/TG750)

10.16mm pitch pre-drilled (/TG100)
RJ45 5.08mm pitch perforated (/TGRJ45)
MINI USB 5.08mm pitch perforated (/TGMINIUSB)
USB 5.08mm pitch perforated (/TGUSB)

## 6 Choose your cover

Grey (/PG)
Clear transparent (/PC)
Smoked transparent (/PS)
Red transparent (/PR)

Red transparent curved (/PRC)
Smoked transparent curved (/PSC)
Clear transparent curved (/PCC)
Grey curved (/PGC)

## Extended height attachment (body not included)

- Enables you to increase the height of your CNMB by 16mm
- Available to fit body sizes 2, 3, 4, 5, 6 and 9
- Choose your hinged, curved lid (grey, clear transparent or red transparent)
- Adds space for an additional horizontal PCB slot
- Extended height modules are not compatible with solid top bodies

CNMB/4/E

CNMB/2/HPGC    CNMB/2/HPCC    CNMB/2/HPRC
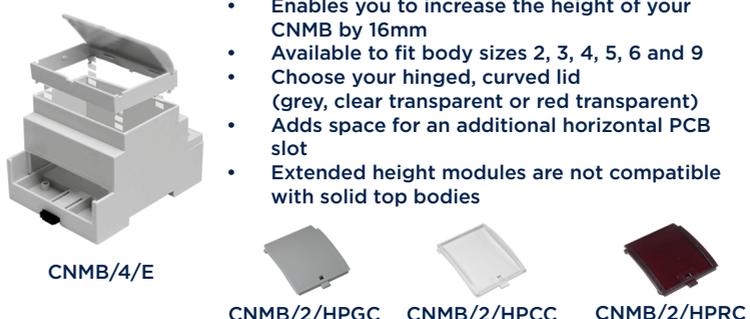
**Why not customise your CNMB...**
Drilling & CNC milling to create slots, holes and features, printing & engraving, surface coating, RFI shielding, bespoke colours (subject to MOQ)
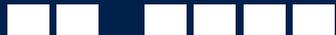
## PCB POSITIONS AND SIZES

| 1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **HORIZONTAL PCB SIZE AND POSITION** | A | 86.5 x 14mm | 86.5 x 33mm | 86.5 x 50mm | 86.5 x 68mm | 86.5 x 84mm | 86.5 x 103mm | 86.5 x 156mm | 86.5 x 208mm |
| | B | 57 x 14mm | 57 x 32mm | 57 x 49mm | 57 x 67mm | 57 x 83mm | 57 x 102mm | 57 x 155.5mm | 57 x 207mm |
| | C | 41.8 x 14mm | 42 x 32mm | 42 x 49mm | 42 x 67mm | 42 x 83mm | 42 x 102mm | 42 x 155mm | 42 x 207mm |
| **VERTICAL PCB SIZE AND POSITION** | D | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm | 34 x 59.6mm |
| | E | 40 x 14.8mm | 40 x 33mm | 40 x 50mm | 40 x 68mm | 40 x 84mm | 40 x 103mm | 40 x 155mm | 40 x 208mm |

## SELECT YOUR CNMB BODY

| 2 | CNMB BODY LENGTH | CNMB/1 17.5mm | CNMB/2 36mm | CNMB/3 53.4mm | CNMB/4 71.2mm | CNMB/5 88mm | CNMB/6 106.2mm | CNMB/9 159.2mm | CNMB/12 212.1mm |
|---|---|---|---|---|---|---|---|---|---|

| 3 | CNMB BODY TYPE | **Standard body** (e.g. CNMB/4)<br>**Solid top body** add **ST** (e.g. CNMB/4**ST**)<br>**Vented body** add **V** (e.g. CNMB/4**V**)<br>**Extended wall body** add **W** (e.g. CNMB/4**W**) Please note that terminal guards do not fit extended wall versions.<br>**Combination of body types** add **W, V, ST. (e.g. extended wall vented** would be CNMB/4**WV**) May be subject to MOQ. |
|---|---|---|

| 4 | CHOOSE THE NUMBER OF EXPOSED TERMINAL POSITIONS REQUIRED | Add **/1** for a single sided exposed terminal (e.g. CNMB/5**/1**) Please note , this is only available as standard in sizes 5, 6 and 9<br>Add **/2** for a double sided exposed terminal (e.g. CNMB/5**/2**) |
|---|---|---|

## SELECT YOUR TERMINAL GUARDS

| 5 | | | CNMB/1 | CNMB/2 | CNMB/3 | CNMB/4 | CNMB/5 | CNMB/6 | CNMB/9 | CNMB/12 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CHOOSE THE SAME STYLE OR MIX AND MATCH**<br><br>e.g. CNMB/3/TGS X2<br>OR<br>CNMB/3/TG508 X1 AND CNMB/3/TGS X1 | | SOLID | CNMB/1/TGS | CNMB/2/TGS | CNMB/3/TGS | CNMB/4/TGS | CNMB/5/TGS | CNMB/3/TGS | CNMB/3/TGS | CNMB/3/TGS |
| | | 5.08mm PITCH PERFORATED | CNMB/1/TG508P | CNMB/2/TG508P | CNMB/3/TG508P | CNMB/4/TG508P | CNMB/5/TG508P | CNMB/3/TG508P | CNMB/3/TG508P | CNMB/3/TG508P |
| | | 5.08mm PITCH PRE-DRILLED | CNMB/1/TG508 | CNMB/2/TG508 | CNMB/3/TG508 | CNMB/4/TG508 | CNMB/5/TG508 | CNMB/3/TG508 | CNMB/3/TG508 | CNMB/3/TG508 |
| | | 7.5mm PITCH PRE-DRILLED | CNMB/1/TG750 | CNMB/2/TG750 | CNMB/3/TG750 | CNMB/4/TG750 | CNMB/5/TG750 | CNMB/3/TG750 | CNMB/3/TG750 | CNMB/3/TG750 |
| | | 10.16mm PITCH PRE-DRILLED | CNMB/1/TG100 | CNMB/2/TG100 | CNMB/3/TG100 | CNMB/4/TG100 | CNMB/5/TG100 | CNMB/3/TG100 | CNMB/3/TG100 | CNMB/3/TG100 |
| | | RJ45 5.08mm PITCH PERFORATED | - | - | CNMB/3/TGRJ45 | - | - | CNMB/3/TGRJ45 | CNMB/3/TGRJ45 | CNMB/3/TGRJ45 |
| | | MINI USB 5.08mm PITCH PERFORATED | - | - | CNMB/3/TGMINIUSB | - | - | CNMB/3/TGMINIUSB | CNMB/3/TGMINIUSB | CNMB/3/TGMINIUSB |
| | | USB 5.08mm PITCH PERFORATED | - | - | CNMB/3/TGUSB | - | - | CNMB/3/TGUSB | CNMB/3/TGUSB | CNMB/3/TGUSB |
| **No. OF TERMINAL GUARDS REQUIRED** | | SINGLE ROW TERMINAL | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 4 |
| | | DOUBLE ROW TERMINAL | 2 | 2 | 2 | 2 | 2 | 4 | 6 | 8 |

## SELECT YOUR COVER

| 6 | | | CNMB/1 | CNMB/2 | CNMB/3 | CNMB/4 | CNMB/5 | CNMB/6 | CNMB/9 | CNMB/12 |
|---|---|---|---|---|---|---|---|---|---|---|
| **STANDARD COVERS** | | SOLID GREY | CNMB/1/PG | CNMB/2/PG | CNMB/3/PG | CNMB/4/PG | CNMB/5/PG | CNMB/6/PG | CNMB/9/PG | CNMB/12/PG |
| | | CLEAR TRANSPARENT | CNMB/1/PC | CNMB/2/PC | CNMB/3/PC | CNMB/4/PC | CNMB/5/PC | CNMB/6/PC | CNMB/9/PC | CNMB/12/PC |
| | | SMOKED TRANSPARENT | CNMB/1/PS | CNMB/2/PS | CNMB/3/PS | CNMB/4/PS | CNMB/5/PS | CNMB/6/PS | CNMB/9/PS | - |
| | | RED TRANSPARENT | CNMB/1/PR | CNMB/2/PR | CNMB/3/PR | CNMB/4/PR | CNMB/5/PR | CNMB/6/PR | CNMB/9/PR | - |
| **CURVED COVERS** | | SOLID GREY | - | CNMB/2/PGC | CNMB/3/PGC | CNMB/4/PGC | CNMB/5/PGC | CNMB/6/PGC | CNMB/9/PGC | - |
| | | CLEAR TRANSPARENT | - | CNMB/2/PCC | CNMB/3/PCC | CNMB/4/PCC | CNMB/5/PCC | CNMB/6/PCC | CNMB/9/PCC | - |
| | | SMOKED TRANSPARENT | - | CNMB/2/PSC | CNMB/3/PSC | CNMB/4/PSC | CNMB/5/PSC | CNMB/6/PSC | CNMB/9/PSC | - |
| | | RED TRANSPARENT | - | CNMB/2/PRC | CNMB/3/PRC | CNMB/4/PRC | CNMB/5/PRC | CNMB/6/PRC | CNMB/9/PRC | - |

**If you would like more advice on choosing the perfect CNMB for your project, then call our expert sales team on: 01638 716101**

# CNMB KITS

Alternatively, if you don't wish to create your own CNMB enclosure, you can choose from one of our pre-selected kits, and the rest is done for you!
Unsure on which CNMB kit would be best for you? Call us on: 01638 716101 and a member of our sales team will be happy to help you.

| KIT | COMPONENT | COVER | TERMINAL GUARDS | |
|---|---|---|---|---|
| | KIT PART NO. | SOLID GREY /PG | PERFORATED /TG508P | SOLID /TGS |
| STANDARD | CNMB/1/KIT | 1 | 2 | 1 |
| | CNMB/2/KIT | 1 | 2 | 1 |
| | CNMB/3/KIT | 1 | 2 | 1 |
| | CNMB/4/KIT | 1 | 2 | 1 |
| | CNMB/5/KIT | 1 | 2 | 1 |
| | CNMB/6/KIT | 1 | 4* | 2* |
| | CNMB/9/KIT | 1 | 6* | 3* |
| | CNMB/12/KIT | 1 | 8* | 4* |



CNMB/3/KIT



CNMB/6/KIT

| KIT | COMPONENT | COVER | TERMINAL GUARDS | | EXTENSION MODULE |
|---|---|---|---|---|---|
| | KIT PART NO. | CLEAR TRANS- PARENT /HPCC | PERFORATED /TG508P | SOLID /TGS | /E |
| EXTENDED HEIGHT | CNMB/2E/KIT | 1 | 2 | 1 | 1 |
| | CNMB/3E/KIT | 1 | 2 | 1 | 1 |
| | CNMB/4E/KIT | 1 | 2 | 1 | 1 |
| | CNMB/5E/KIT | 1 | 2 | 1 | 1 |
| | CNMB/6E/KIT | 1 | 4* | 2* | 1 |
| | CNMB/9E/KIT | 1 | 6* | 3* | 1 |

*For sizes 6, 9 and 12 multiple 'size 3' terminal guards are supplied. For example, size 6 requires 2x 'size 3' guards per side.

Kits are also available for vented, solid top and extended wall bodies e.g. CNMB/2ST/KIT.

Extended wall kits do not come with terminal guards.



CNMB/2E/KIT



Extended height module and lid included with kits



CNMB/9E/KIT

## CUSTOMISATION

Make your CNMB stand out by utilising our professional customisation service. We'll deliver your CNMB machined and digitally printed, ready to assemble STRAIGHT OUT OF THE BOX! You can choose to customise your CNMB by machining cut-outs at our in-house machining centre. You can also choose custom colours, surface coating and RFI shielding, as well as engraving and digital/screen printing.



**Bespoke colours**



**Conductive coating**



**Drilling and milling**



**Printing**

# APPLICATIONS

Our CNMB DIN Rail modular enclosures are ideal for DIN Rail systems in a wide variety of industries.
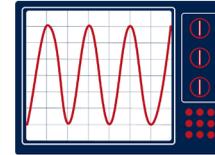
Applications include, power breakers, HVAC, network interfaces, IoT devices, condition monitors and bus systems.



**INDUSTRIAL CONTROL**



**HOME AUTOMATION**



**INSTRUMENTATION**



**COMMUNICATIONS**



**HVAC**



**POWER MANAGEMENT**

## ASSOCIATED PRODUCTS

### X series - heavy duty electrical enclosures

The toughest electronics and electrical housing we have offered to date. The X series range are the ultimate enclosures for DIN Rail mounted components (particularly the CNMB). Compliant to IP67 and IK08 impact resistance, the series provides the protection needed for rugged and harsh environments.

These heavy-duty enclosures are designed to protect.



### Terminal blocks

We offer a perfect balance of quality products suitable for a variety of industry sectors, where 'wire to board' or 'wire to wire' is required. Holding compliant certification and covering pitch sizes from 2.5mm up to 10.16mm in a selection of profiles. Multiple options are available such as, standard wire to board, pluggable and screwless terminal blocks. Visit www.camdenboss.com/cnmb to find out which terminal block will be best suited for your CNMB.



### Interface modules

These ready-made interfaces are equipped to take on networking requirements. They simplify data and power management whilst mounting within your product's DIN Rail design.

Options include USB, fused, relay and IDC connectors.



### Interface supports (CIME)

CIME interface supports allow you the freedom to create your own custom PCB module that is directly mountable to a DIN Rail system.

Made-to-measure custom size lengths are available to support larger PCBs. In turn, the modular option supports your industry sized requirements, providing a flexible 'add on' option, as your IoT system design evolves.
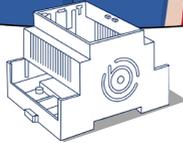
# KEY CNMB FEATURES
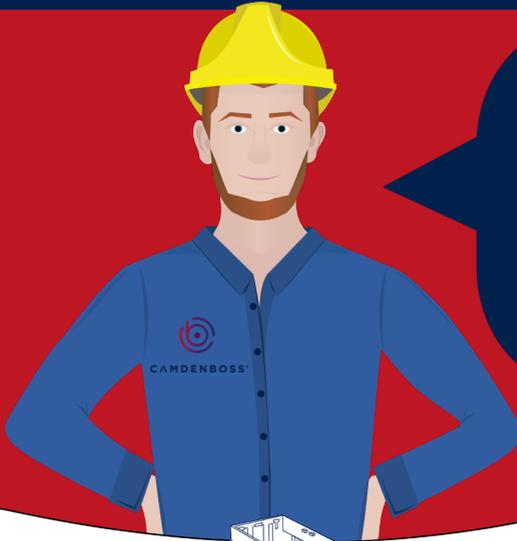
## DID YOU KNOW...

The CNMB DIN Rail enclosure provides you with the tools to custom build it to your exact requirements. Giving you the option of different lengths, tops, walls, guards and PCB positions, the CNMB is as flexible as you need it to be.

**Key features:**

- Snap fit modular enclosure series offering widest versatility in its class

- Comprehensive and flexible range built up of multiple length options

- Modular style terminal guards and top covers

- Holds up to 3 horizontal or 2 vertical PCBs

- The extended height accessory adds a further horizontal position

- Chassis, wall and DIN Rail mounting

- Can be supplied as kits

- Easily customisable

- Perfect for networking, IoT devices, power management or automation

## BROWSE THE FULL CNMB RANGE AT WWW.CAMDENBOSS.COM/CNMB