We offer an extensive range of products for industrial PCs to the ATX standard, from 482.6 mm (19") rack-mount version in 4 U, through to solutions for direct mounting on mounting plates. Shown opposite is an aluminium version with pull-out inner housing and integrated electronics for automatic restart following a mains failure.

**ATX Ripac, aluminium**

- **The top-of-the-range model** with outstanding maintenance-friendliness: The inner housing can be pulled out like a drawer.
- **Enclosure body** of clear-chrome-mated aluminium, conductive.
- **Horizontally hinged, lockable front panel** offers rapid access to drives and control components, as well as protecting against unauthorised access.

- **EMC gaskets** – for unused slot covers – and conductive attachment of the motherboard.
- **Option of externally mounting** 3 x 5 1/4" and 1 x 3 1/2" drives for internal installation. Drive covers (accessory) for unused positions.
- **Integral electronics** for automatic restart following a mains failure.
**Features**

**ATX 4 U, sheet steel**
- Lockable front panel protects against unauthorised access.
- Slide rail mounting with no loss of height, due to reduced side panel height.
- Unpainted contact points ensure reliable contact.

**AT/ATX (Vario) Economy with front door**
- ATX Economy: Fully assembled and prewired.
- AT/ATX Vario Economy: The basic case for individual installation and self-assembly.
- Enclosure made from sheet steel zinc-plated/spray-finished, for demanding requirements in terms of stability and safety.
- Easy removal of the drive module for external population.

**ATX with front connections**
- As a 482.6 mm (19") version for mounting in the enclosure, or for mounting directly onto the mounting plate.
- I/O connections at the front guarantee access from the front and flexibility, e.g. with minimal space available for connections to other systems.
- Rear panel with cut-out for PS/2 power pack.
Rack-mount systems for industrial PCs

ATX Ripac 4 U, aluminium

Technical specifications:
482.6 mm (19”) rack-mount system for the installation of ATX/Mini-ATX or Micro-ATX boards and 3 x 5½" and 1 x 3½” drives.
Width: 482.6 mm (19”)
Height: 4 U (177.0 mm)
Total depth: 440 mm
EMC prepared.

Material/surface finish:
Side panels, front panels: Aluminium, clear-chromated
Covers: 1.0 mm aluminium, clear-chromated
PC internal cassette: Sheet steel, zinc-plated, passivated

Standards:
Complies with IEC 60 297-3 and ATX specification 2.01

Special designs available on request.

Supply includes:
1 Rack-mount system 4 U, including drive holder
2 PC cassette
3 1 fan 120 mm with filter
4 ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
5 Front door, horizontally hinged
6 Front door, horizontally hinged, lockable
7 LED displays
8 Reset button
9 EMC gaskets, all round
10 ON/OFF switch with electronics for automatic restart following a mains failure (activation/deactivation of the electronics via jumper)
11 Cover

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<th>Page</th>
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Model No. RP basic system fully assembled

1 Card retainer
2 Mounting bar for card retainer
3 Unused slot cover
4 Cover for 5½” drive space
5 Drive support 1 set
6 Spare filter mat
7 Uninterruptible power supply Output: 300 VA/180 W

ATX I/O covers:
Type “Aurora Marl”
Type “Tucson”
Type “Venus”
Type “Providence”

1) Other versions available on request; please specify the type of mainboard.

Accessories
Page 538. Keyboard rack 482.6 mm (19”) Page 1141. TFT display 15” Page 1141
Rack-mount systems for industrial PCs

**ATX 4 U, sheet steel**

**Technical specifications:**
- 482.6 mm (19") rack-mount system for the installation of ATX/Midi-ATX or Micro-ATX boards and 3 x 5½" and 1 x 3½" drives.
- Width: 482.6 mm (19")
- Height: 4 U (177.0 mm)
- Side panels: 174.0 mm
- Total depth: 442.5 mm
- Suitable for mounting on slide rails.

**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

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**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

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- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

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**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
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- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives

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**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
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**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
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- Front panel with ventilation holes and filter mat
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- Two 482.6 mm (19") flanges
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**Material/surface finish:**
- Case, covers, front panels: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Standards:**
- Complies with IEC 60 297-3 and ATX specification 2.01

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fan and filter mat, exchangeable from the front
- ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
- Front door, vertically hinged, lockable
- Front panel with ventilation holes and filter mat
- LED displays, speakers, Reset switch, on/off switch
- Two 482.6 mm (19") flanges
- Drive holder for 4 x 3½" hard drives
Rack-mount systems for industrial PCs

ATX Economy with front door, 4 U, sheet steel

**Material/surface finish:**
- Case, cover: 1.2 mm sheet steel, zinc-plated, passivated
- Front door: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Technical specifications:**
- 482.6 mm (19") rack-mount system for the installation of ATX/Mini-ATX or Micro-ATX boards and 3 x 5¼" and 1 x 3½" drives.
- Width: 482.6 mm (19")
- Height: 4 U (177.0 mm)
- Total depth: 430 mm
- EMC prepared.

**Special designs available on request.**

**Supply includes:**
- Rack-mount system 4 U, including drive holder
- 1 x 120 mm fans and filter mat
- ATX power pack 300 W (Technical specifications, see RP 3688 121, page 545)

**Material/surface finish:**
- Case, cover: 1.2 mm sheet steel, zinc-plated, passivated
- Front door: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

**Technical specifications:**
- 482.6 mm (19") rack-mount system for the installation of ATX/Mini-ATX or Micro-ATX boards and 3 x 5¼" and 1 x 3½" drives.
- Width: 482.6 mm (19")
- Height: 4 U (177.0 mm)
- Total depth: 430 mm
- EMC prepared.

**Special designs available on request.**

**Supplementary information:**
- ATX I/O covers:
  - Type “Aurora Marl”
  - Type “Tucson”/“Venus”
  - Type “Providence”

**Accessories:**
- Card retainer
- Mounting bar for card retainer
- Unused slot cover
- Cover for 5¼" drive space
- Cover for 3½" drive space
- Drive holder
- Spare filter mat
- Uninterruptible power supply
- Telescopic slides for 600 mm enclosure depth
- Telescopic slides for 800 mm enclosure depth
- Front handles for ATX 4 U

**Table of Accessories:**

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<th>Packs of</th>
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**ATX I/O covers, sheet steel:**
- Type “Aurora Marl”
- Type “Tucson”/“Venus”
- Type “Providence”

**Accessories:**
- Page 538
- Keyboard rack 482.6 mm (19")
- TFT display 15"

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1) Other versions available on request; please specify the type of mainboard.

**ATX I/O covers:**
- Type “Aurora Marl”
- Type “Venus”
- Type “Providence”
- Type “Tucson”
Modular system AT/ATX Vario Economy with front door, 4 U, sheet steel

The modular principle of AT/ATX Vario Economy allows installation to accommodate individual requirements. The basic case may be fitted for both AT and ATX applications with the appropriate selection of rear panels, power packs and front trim panels. For self-assembly, or on request fully assembled and wired.

Technical specifications:
- Case, cover: 1.2 mm sheet steel, zinc-plated, passivated
- Front door: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

Material/surface finish:
- Case, cover: 1.2 mm sheet steel, zinc-plated, passivated
- Front door: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

Standards:
- Complies with IEC 60 297-3 and ATX specification 2.01

Special designs available on request.

Basic enclosure supply includes:
- Rear panel, front trim panel and power pack should be ordered separately (for self-assembly).

### Technical Specifications

#### Installation, rear

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<th>Installation for redundant power pack (PS/2)</th>
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<th>ATX power pack 300 W, PFC passive</th>
<th>Redundant power pack (PS/2) 2 x 300 W</th>
<th>Fan 12 V DC, 60 mm, for the rear panel</th>
<th>Spare filter mat</th>
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#### Installation, front

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<td>Slotted rear panel 14 slots for AT</td>
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#### Power packs

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#### Accessory

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**Rittal Catalogue 32/Electronic Packaging**

Page 538 Keyboard rack 482.6 mm (19") Page 1141 TFT display 15" Page 1141
Rack-mount systems for industrial PCs

ATX with front connections for 482.6 mm (19”) installation, 4 U

Technical specifications:
482.6 mm (19”) rack-mount system for the installation of ATX/Mini-ATX or Micro-ATX boards and 1 x 5¼” and 1 x 3½” drives.
Width: 482.6 mm (19”)
Height: 4 U
Flanges: 177.0 mm
Side panels: 174.0 mm
Total depth: 442.5 mm
Connections for I/Os, front EMC prepared.
Suitable for mounting on slide rails.

Material/surface finish:
Case, covers: 1.2 mm sheet steel, spray-finished in RAL 7035, unpainted contact points

Standards:
Complies with IEC 60 297-3 and ATX specification 2.01

Special designs available on request.

Supply includes:
1. Rack-mount system 4 U, including drive holder
2. 19” flanges
3. 2 x 120 mm fans
4. ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
5. LED displays
6. Reset button
7. On/off switch
8. Cover
9. Rear panel with cutout and connection for power pack
10. Mounting bar for card retainer
11. Drive holder for 1 x 5¼” and 1 x 3½”
12. Drive holder for 3 x 3½” hard drives

Material/surface finish:
Type “Aurora Marl”
Type “Tucson”/“Venus”
Type “Providence”

ATX I/O covers:

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<td>Unused slot cover</td>
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1) Other versions available on request; please specify the type of mainboard.

Accessories

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ATX I/O covers:

Type “Aurora Marl”
Type “Venus”
Type “Providence”
Type “Tucson”

Accessories

Page 538: Keyboard rack 482.6 mm (19”) T5 482.6 mm (19”) TFT display 15”
Page 1141: TFT display 15”
Rack-mount systems for industrial PCs

ATX with front connections for wall mounting

Technical specifications:
System for the installation of ATX/Mini-ATX or Micro-ATX boards and 3 x 5 1/4″ and 1 x 3 1/2″ drives, vertical.
Width: 380 mm
Height: 330 mm
Total depth: 292.5 mm
Connections for I/Os, front EMC prepared.
Suitable for mounting on mounting plates.

Material/surface finish:
Case, covers: 1.2 mm sheet steel, zinc-plated, passivated, unpainted, unpainted contact points

Standards:
Complies with IEC 60 297-3 and ATX specification 2.01
Special designs available on request.

Supply includes:
1 Rack-mount system, including drive holder
2 Flanges for wall mounting
3 1 x 120 mm fan
4 ATX power pack 300 W (Technical specifications, see RP 3688.129, page 545)
5 LED displays

Supply includes:

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width mm</td>
<td>380.0</td>
</tr>
<tr>
<td>Height mm</td>
<td>330.0</td>
</tr>
<tr>
<td>Depth mm</td>
<td>292.5/290.0</td>
</tr>
<tr>
<td>Model No. RP basic system fully assembled</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unused slot cover</td>
<td>5</td>
</tr>
<tr>
<td>Cover for 5 1/4″ drive space</td>
<td>1</td>
</tr>
<tr>
<td>Cover for 3 1/2″ drive space</td>
<td>1</td>
</tr>
<tr>
<td>Uninterruptible power supply</td>
<td>1</td>
</tr>
</tbody>
</table>

ATX I/O covers, sheet steel

1) Other versions available on request; please specify the type of mainboard.

ATX I/O covers:

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type “Aurora Marl”</td>
<td>1</td>
</tr>
<tr>
<td>Type “Tucson”/“Venus”</td>
<td>1</td>
</tr>
<tr>
<td>Type “Providence”</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessories Page 538 Keyboard rack 482.6 mm (19″) Page 1141 TFT display 15″ Page 1141
**Rack-mount systems for industrial PCs**

**Accessories**

**Unused slot cover**
Screw-on cover to conceal slot cut-outs which are not required.

*Material:* Sheet steel, zinc-plated, passivated

*Supply includes:* Assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3659.030</td>
</tr>
</tbody>
</table>

**Cover for drives**
To conceal the 3½” or 5⅛” drive slots.

*Material:* Sheet steel, zinc-plated/spray-finished in RAL 7035

*Supply includes:* Assembly parts.

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3½”</td>
<td>1</td>
<td>3659.410</td>
</tr>
<tr>
<td>5⅛”</td>
<td>1</td>
<td>3659.110</td>
</tr>
</tbody>
</table>

**Telescopic slides**
Facilitate optimum accessibility to the units, even when built-in.
For up to a maximum enclosure width of 426 mm.

*Load capacity:* 30 kg

*Material:* Sheet steel

*Supply includes:* 1 set = 2 telescopic slides, installation kit, assembly parts.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Maximum extension mm</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>511.2</td>
<td>3659.180</td>
</tr>
<tr>
<td>800</td>
<td>596.4</td>
<td>3659.190</td>
</tr>
</tbody>
</table>

*Note:* May only be fitted in conjunction with L-shaped 482.6 mm (19”) sections!

**Front handles**
The handles are fitted onto the 482.6 mm (19”) flange. They allow easy withdrawal of the cases from the enclosure.

*Material:* Sheet steel, plated

*Supply includes:* Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure height (U)</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3659.540</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>3659.020</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>3659.240</td>
</tr>
</tbody>
</table>

**Drive holder**
The drive holder will accommodate a maximum of 4 additional 3½” hard disks. They are mounted inside the enclosure behind the fan.

*Material:* Sheet steel, zinc-plated, passivated

*Supply includes:* Assembly parts.

<table>
<thead>
<tr>
<th>For system</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATX Economy</td>
<td>1 set</td>
<td>3659.230</td>
</tr>
<tr>
<td>Ripac ATX</td>
<td>1 set</td>
<td>3659.060</td>
</tr>
</tbody>
</table>
Accessories

**Card retainer**
For secure attachment and stabilisation of slot cards up to 327 mm depth. The card retainers are height-adjustable so that even cards of different heights may be securely attached.

*A mounting bar is needed to fit the card retainer* (already included with ATX Ripac).

**Material:**
- Card retainer: Plastic
- Mounting bar: Sheet steel, zinc-plated, passivated

**Table:**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>3659.010</td>
</tr>
</tbody>
</table>

**Mounting bar**

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3659.090</td>
</tr>
</tbody>
</table>

**Adaptor**
For the installation of 3½” hard disks or floppies in 5¼” installation slots.

**Material:**
- Sheet steel, zinc-plated
- Front panel: Spray-finished in RAL 7035

**Supply includes:**
- Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>for 3½” hard disk</td>
<td>1</td>
<td>3659.270</td>
</tr>
<tr>
<td>for 3½” floppy</td>
<td>1</td>
<td>3659.280</td>
</tr>
</tbody>
</table>

**DC fan for rear panel**
Fan 12 V DC, 60 mm, for mounting on the rear panel. Including two 4-pole connectors with terminal.

**Supply includes:**
- 2 fans with connection cable, including assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3659.250</td>
</tr>
</tbody>
</table>

**Rear panels**
For the installation of AT/ATX Economy. Optionally with cut-out for AT/ATX power pack or redundant power pack.

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 for AT/ATX power pack (PS/2)</td>
<td>1</td>
<td>3659.290</td>
</tr>
<tr>
<td>1 for redundant power pack PS/2</td>
<td>1</td>
<td>3659.310</td>
</tr>
</tbody>
</table>

**Slotted rear panels**
For the installation of AT/ATX Economy. Mounted on the rear panels. Optionally for AT (8 + 4 or 14 slots) or ATX (7 slots).

**Material:**
- Sheet steel, zinc-plated, passivated

**Supply includes:**
- Assembly parts.

**Table:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AT 4 + 8 slots</td>
<td>1</td>
<td>3659.330</td>
</tr>
<tr>
<td>2 AT 14 slots</td>
<td>1</td>
<td>3659.340</td>
</tr>
<tr>
<td>3 ATX 7 slots</td>
<td>1</td>
<td>3659.320</td>
</tr>
</tbody>
</table>

**Front trim panels**
For the installation of AT/ATX Economy. Mounted in the front of the enclosure.

Optionally for:
- AT (2 x LED, reset button)
- ATX (2 x LED, reset button)
- ATX (2 x LED, reset button), electronics for automatic restart following mains failure

**Table:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AT</td>
<td>1</td>
<td>3659.360</td>
</tr>
<tr>
<td>2 ATX</td>
<td>1</td>
<td>3659.350</td>
</tr>
<tr>
<td>3 ATX (with electronics)</td>
<td>1</td>
<td>3659.370</td>
</tr>
</tbody>
</table>