

# Backplane Selection Guide

## Rackmount Chassis

| PICMG 1.0    | Slots per Segment |     |       |    |     | PCI-X | Compatible Chassis |         |         |          |        |
|--------------|-------------------|-----|-------|----|-----|-------|--------------------|---------|---------|----------|--------|
|              | PICMG             | PCI | ISA   |    |     |       | RK-110S            | RK210S  | RK-260  | RK-410FS | RK-610 |
| HPCI-D3S2    | 1                 | 2   | -     |    |     | -     | ✓                  |         |         |          |        |
| HPCI-D6S4    | 1                 | 4   | 1     |    |     | -     |                    | ✓       | ✓       |          |        |
| HPCI-13S4LU  | 3                 | 4   | 7     |    |     | -     |                    |         |         | ✓        | ✓      |
| HPCI-14S12U  | 2                 | 12  | 1     |    |     | -     |                    |         |         | ✓        | ✓      |
| HPCI-14S/ATX | 2                 | 4   | 8     |    |     | -     |                    |         |         | ✓        | ✓      |
| PICMG 1.3    | PICMG             | PCI | PCI-E |    |     | PCI-X | RK-110SE           | RK-210E | RK-260E | RK-410FS | RK-610 |
|              |                   |     | x1    | x4 | x16 |       |                    |         |         |          |        |
| EBP-10E5     | 1                 | 4   | 4     |    | 1   | -     |                    |         |         | ✓        | ✓      |
| EBP-13E2     | 1                 | 10  | -     | 1  | 1   | -     |                    |         |         | ✓        | ✓      |
| EBP-13E4     | 1                 | 7   | -     | 3  | 1   | -     |                    |         |         | ✓        | ✓      |
| EBP-D5E2     | 1                 | 2   | -     | 1  | 1   | -     |                    | ✓       | ✓       |          |        |
| EBP-D3E1     | 1                 | -   | -     | 1  | -   | -     | ✓                  |         |         |          |        |
| WBP-13E4     | 1                 | 8   |       | 3  | 1*  |       |                    |         |         | ✓        | ✓**    |
| WBP-13E8     | 1                 | 4   | 5     | 2  | 1*  |       |                    |         |         | ✓        | ✓**    |

\* PCIe x8 signal

\*\* 1x PCI slot not accessible when installed in chassis

## Wallmount Chassis

| PICMG 1.0 | Slots per Segment |     |       |    |     | PCI-X | Compatible Chassis |           |
|-----------|-------------------|-----|-------|----|-----|-------|--------------------|-----------|
|           | PICMG             | PCI | ISA   |    |     |       | RK-607B            | RK-608B-E |
| HPCI-6S4  | 1                 | 4   | 1     |    |     | -     | ✓                  |           |
| HPCI-8S4  | 2                 | 4   | 3     |    |     | -     |                    | ✓         |
| HPCI-9S7U | 2                 | 7   | 1     |    |     | -     |                    | ✓         |
| PICMG 1.3 | PICMG             | PCI | PCI-E |    |     | PCI-X | RK-607B            | RK-608B-E |
|           |                   |     | x1    | x4 | x16 |       |                    |           |
| EBP-5E1   | 1                 | 2   | -     | -  | 1   | 1     | ✓                  |           |
| EBP-7E2   | 1                 | 4   | -     | 1  | 1   | -     |                    | ✓         |
| EBP-9E2   | 1                 | 6   | -     | 1  | 1   | -     |                    | ✓         |
| EBP-6E2   | 1                 | 3   | -     | 1  | 1   | -     | ✓                  |           |
| EBP-9E5   | 1                 | 3   | 4     | -  | 1   | -     |                    | ✓         |

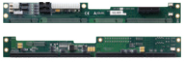
# Industrial Single Computers Selection Guide

|              | Single Board Computers |     |     |                 |            |
|--------------|------------------------|-----|-----|-----------------|------------|
| PICMG 1.0    | Slots per Segment      |     | ISA | Compatible SBCs |            |
|              | Segment                | PCI |     | NuPRO-A331      | NuPRO-A40H |
| HPCI-D3S2    | 1                      | 2   | -   | ✓               | ✓          |
| HPCI-D6S4    | 1                      | 4   | 1   | ✓               | ✓          |
| HPCI-6S4     | 1                      | 4   | 1   | ✓               | ✓          |
| HPCI-8S4     | 2                      | 4   | 3   | ✓               | ✓          |
| HPCI-9S7U    | 2                      | 7   | 1   | ✓               | ✓          |
| HPCI-13S4LU  | 3                      | 4   | 7   | ✓               | ✓          |
| HPCI-14S12U  | 2                      | 12  | 1   | ✓               | ✓          |
| HPCI-14S/ATX | 2                      | 4   | 8   | ✓               | ✓          |
| HPCI-19S18A  | 2                      | 18  | 0   | ✓               | ✓          |

|           | Single Board Computers |     |       |       |    |     |                 |            |           |           |
|-----------|------------------------|-----|-------|-------|----|-----|-----------------|------------|-----------|-----------|
| PICMG 1.3 | Slots per Segment      |     |       | PCI-E |    |     | Compatible SBCs |            |           |           |
|           | Segment                | PCI | PCI-X | x1    | x4 | x16 | NuPRO-E42       | NuPRO-E340 | NuPRO-E72 | NuPRO-E43 |
| EBP-5E1   | 1                      | 2   | 1     | -     | -  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-6E2   | 1                      | 3   | -     | -     | 1  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-7E2   | 1                      | 4   | -     | -     | 1  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-9E2   | 1                      | 6   | -     | -     | 1  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-9E5   | 1                      | 3   | -     | 4     | -  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-10E5  | 1                      | 4   | -     | 4     | -  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-13E2  | 1                      | 10  | -     | -     | 1  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-13E4  | 1                      | 7   | -     | -     | 3  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-D5E2  | 1                      | 2   | -     | -     | 1  | 1   | ✓               | ✓          | ✓**       | ✓         |
| EBP-D3E1  | 1                      | -   | -     | -     | 1  | 0   | ✓               | ✓          | ✓**       | ✓         |
| WBP-13E4  | 1                      | 8   | -     | -     | 3  | 1*  | -               | -          | ✓         | ✓         |
| WBP-13E8  | 1                      | 4   | -     | 5     | 2  | 1*  | -               | -          | ✓         | ✓         |

\* PCIe x8 signal

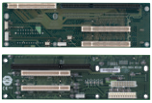
\*\* Needs special part number

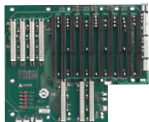
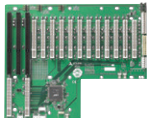
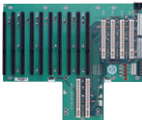
| Model Name                | PICMG® 1.3 Backplanes                                                             |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           | WBP-13E4                                                                          | WBP-13E8                                                                          | EBP-5E1                                                                           | EBP-7E2                                                                            | EBP-9E2                                                                             | EBP-D3E1                                                                            |
| <b>Passive Backplanes</b> |  |  |  |  |  |  |
|                           | PCI-E® x16                                                                        | 1*                                                                                | 1*                                                                                | 1                                                                                  | 1                                                                                   | 1                                                                                   |
|                           | PCI-E® x4                                                                         | 3                                                                                 | 2                                                                                 | -                                                                                  | 1                                                                                   | 1                                                                                   |
|                           | PCIe x1                                                                           | -                                                                                 | 5                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |
|                           | PCI-X™                                                                            | -                                                                                 | -                                                                                 | 1                                                                                  | -                                                                                   | -                                                                                   |
|                           | PCI™                                                                              | 8                                                                                 | 4                                                                                 | 2                                                                                  | 4                                                                                   | 6                                                                                   |
|                           | AT                                                                                | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |
|                           | ATX                                                                               | ✓                                                                                 | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   | ✓                                                                                   |
|                           | Segments                                                                          | 1                                                                                 | 1                                                                                 | 1                                                                                  | 1                                                                                   | 1                                                                                   |
|                           | Dimensions                                                                        | 328 mm x 312 mm                                                                   | 327.6 mm x 317.5 mm                                                               | 153 mm x 330 mm                                                                    | 328 mm x 206 mm                                                                     | 328 mm x 206 mm                                                                     |
|                           | SATA                                                                              | 2                                                                                 | 2                                                                                 | 2                                                                                  | 2                                                                                   | 2                                                                                   |
|                           | USB 2.0                                                                           | 4 (2x vertical, 2x pin header)                                                    | 4 (pin header)                                                                    | 4 (pin header)                                                                     | 4 (pin header)                                                                      | 4 (pin header)                                                                      |

\* PCIe x8 signal

| Model Name                | PICMG® 1.3 Backplanes                                                               |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                           | EBP-6E2                                                                             | EBP-D5E2                                                                            | EBP-10E5                                                                            | EBP-13E2                                                                             | EBP-13E4                                                                              | EBP-9E5                                                                               |
| <b>Passive Backplanes</b> |  |  |  |  |  |  |
|                           | PCI-E® x16                                                                          | 1                                                                                   | 1                                                                                   | 1                                                                                    | 1                                                                                     | 1                                                                                     |
|                           | PCI-E® x4                                                                           | 1                                                                                   | 1                                                                                   | -                                                                                    | 1                                                                                     | 3                                                                                     |
|                           | PCIe x1                                                                             | -                                                                                   | -                                                                                   | 4                                                                                    | -                                                                                     | -                                                                                     |
|                           | PCI-X™                                                                              | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                     | -                                                                                     |
|                           | PCI™                                                                                | 3                                                                                   | 2                                                                                   | 4                                                                                    | 10                                                                                    | 7                                                                                     |
|                           | AT                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                     | -                                                                                     |
|                           | ATX                                                                                 | ✓                                                                                   | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     | ✓                                                                                     |
|                           | Segments                                                                            | 1                                                                                   | 1                                                                                   | 1                                                                                    | 1                                                                                     | 1                                                                                     |
|                           | Dimensions                                                                          | 328 mm x 140 mm                                                                     | 331 mm x 84 mm                                                                      | 330 mm x 318 mm                                                                      | 330 mm x 318 mm                                                                       | 330 mm x 318 mm                                                                       |
|                           | SATA                                                                                | 2                                                                                   | 2                                                                                   | 2                                                                                    | 2                                                                                     | 2                                                                                     |
|                           | USB 2.0                                                                             | 4 (pin header)                                                                      | 4 (pin header)                                                                      | 4 (pin header)                                                                       | 4 (pin header)                                                                        | 4 (pin header)                                                                        |

# Industrial Single Computers Selection Guide

|                                                                                                             | PICMG® 1.0 Backplanes                                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model Name                                                                                                  | HPCI-D3S2                                                                         | HPCI-D6S4                                                                         | HPCI-6S4                                                                          | HPCI-8S4                                                                            | HPCI-9S7U                                                                           |
| <b>Passive Backplanes</b>  |  |  |  |  |  |
|                                                                                                             | PCI™                                                                              | 2                                                                                 | 4                                                                                 | 4                                                                                   | 7                                                                                   |
|                                                                                                             | ISA                                                                               | -                                                                                 | 1                                                                                 | 1                                                                                   | 3                                                                                   |
|                                                                                                             | AT                                                                                | -                                                                                 | ✓                                                                                 | ✓                                                                                   | ✓                                                                                   |
|                                                                                                             | ATX                                                                               | ✓                                                                                 | ✓                                                                                 | ✓                                                                                   | ✓                                                                                   |
|                                                                                                             | Segments                                                                          | 1                                                                                 | 1                                                                                 | 1                                                                                   | 2                                                                                   |
| Dimensions                                                                                                  | 261 mm x 39 mm                                                                    | 261 mm x 79.6 mm                                                                  | 264.2 mm x 132.7 mm                                                               | 264.2 mm x 218 mm                                                                   | 213.4 mm x 259.1 mm                                                                 |

|                               | PICMG® 1.0 Backplanes                                                               |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model Name                    | HPCI-13S4LU                                                                         | HPCI-14S12U                                                                         | HPCI-14S/ATX                                                                         | HPCI-19S18A                                                                           |
| <div>Passive Backplanes</div> |  |  |  |  |
|                               | PCI™                                                                                | 12                                                                                  | 4                                                                                    | 18                                                                                    |
|                               | ISA                                                                                 | 1                                                                                   | 8                                                                                    | 0                                                                                     |
|                               | AT                                                                                  | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     |
|                               | ATX                                                                                 | ✓                                                                                   | ✓                                                                                    | ✓                                                                                     |
|                               | Segments                                                                            | 3                                                                                   | 2                                                                                    | 2                                                                                     |
| Dimensions                    | 314.7 mm x 259 mm                                                                   | 314.7 mm x 259 mm                                                                   | 312 mm x 265 mm                                                                      | 415.3 mm x 264.2 mm                                                                   |

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