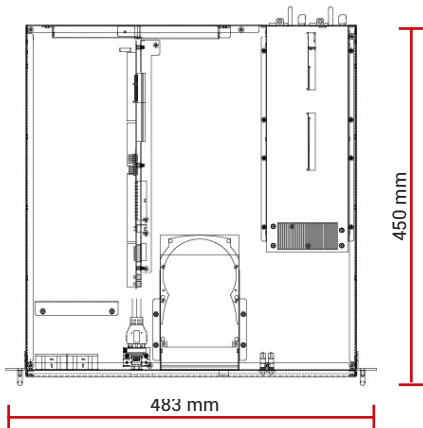


# PC Industriali

## Serie GOI-101A3 - Chassis per SBC 1.3



PC Industriale 1U  
Configurato su richiesta  
Burn in climatico su ogni apparato  
Test Report di collaudo



### Chassis

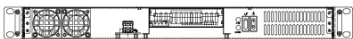
IP-378 - Rev.1

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| Dimensioni     | Chassis 1U - 483 x 44 x 450 mm                                                                            |
| Montaggio      | Rack 19"                                                                                                  |
| Materiale      | Acciaio pre-zincato                                                                                       |
| Architettura   | Backplane passivo PICMG 1.3                                                                               |
| Varianti       | GOI-101A3: Chassis colore nero per backplane passivo 1U PICMG 1.3 - Alimentatore 1U ridondato             |
| Drives         | 1 x 3.5" HDD                                                                                              |
| Ventilazione   | 2 x ventole 40 x 20mm (= 7.0 CFM cad.)                                                                    |
| Led sul fronte | LED per Power e funzionalità HDD                                                                          |
| Pulsanti       | Power On/Off e System Reset                                                                               |
| Fronte         | Porta drives con viti imperdibili, 2 x USB 3.0                                                            |
| Retro          | Single Board Computer - predisposizione per USB + COM<br>Due slot disponibili per schede PCIe full lenght |
| Colore         | Nero o altri colori su richiesta                                                                          |
| Shock          | 15g durata 11ms - EN 60068-2-27                                                                           |
| Vibrazioni     | 10-150Hz: 1G - EN 60068-2-6                                                                               |
| Umidità        | 10 - 95% non condensata                                                                                   |
| Temperatura    | Operativa 0°C... +50°C Storage -20°C... +70°C                                                             |

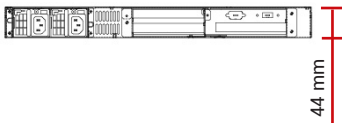
### Complementi

|                   |                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage           | <ul style="list-style-type: none"><li>• Dischi interni HDD / SSD / M.2</li><li>• Cassetti estraibili singoli o multipli per HDD / SSD</li><li>• Soluzioni SATA / SAS</li></ul>                                                                                                                         |
| Media             | <ul style="list-style-type: none"><li>• Tastiera beige/nera italiana/inglese</li><li>• Mouse ottico</li></ul>                                                                                                                                                                                          |
| Schede I/O        | <ul style="list-style-type: none"><li>• Ethernet Server Adapter</li><li>• GPGPU / Schede Video</li><li>• Schede Multi-Head</li><li>• Schede I/O Analogiche e Digitali</li><li>• Schede FPGA</li><li>• Schede MULTISERIALI</li><li>• Frame Grabber</li><li>• MIL-1553 / ARINC 429 / ARINC 418</li></ul> |
| Guide             | Guide telescopiche per montaggio a rack                                                                                                                                                                                                                                                                |
| Sistemi Operativi | <ul style="list-style-type: none"><li>• Windows® versioni Enterprise / Embedded</li><li>• Windows® versioni Server</li><li>• Linux</li></ul>                                                                                                                                                           |

Fronte



Retro



## Single Board

|               |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                                       |                                                                                                                                       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Preferred | <ul style="list-style-type: none"> <li>• i9-14900: 24C, 2.00GHz, 65-219W</li> <li>• i7-14700: 20C, 2.10GHz, 65-219W</li> <li>• i5-14500: 14C, 2.60GHz, 65-154W</li> <li>• i3-14100: 4C, 3.50GHz, 60-110W</li> <li>• i7-13700E: 16C, 1.90GHz, 65W</li> <li>• i5-13500E: 14C, 4.40GHz, 65W</li> <li>• i3-13100E: 4C, 3.30GHz, 60W</li> <li>• i7-12700E: 12C, 1.60GHz, 65W</li> <li>• i5-12500E: 6C, 2.90GHz, 65W</li> <li>• i3-12100E: 4C, 3.20GHz, 60W</li> </ul> | <ul style="list-style-type: none"> <li>• i7-10700E: 8C, 2.9GHz, 65W</li> <li>• i5-10500E: 6C, 3.1GHz, 65W</li> <li>• i3-10100E: 4C, 3.6GHz, 65W</li> </ul> | <ul style="list-style-type: none"> <li>• i7-8700: 6C 3.20 GHz, 65W</li> <li>• i5-8500: 6C 3.00 GHz, 65W</li> <li>• i3-8100: 4C 3.60 GHz, 65W</li> </ul> | <ul style="list-style-type: none"> <li>• i7-7700: 4C 3.6GHz, 65W</li> <li>• i5-7500: 4C 3.4GHz, 65W</li> <li>• i3-7101E: 2C 3.9GHz, 54W</li> <li>• i7-6700: 4C 3.4GHz, 65W</li> <li>• i5-6500: 4C 3.2GHz, 65W</li> </ul> |
| Chipset       | Intel Q670E                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Intel Q470                                                                                                                                                 | Intel Q370                                                                                                                                              | Intel Q170                                                                                                                                                                                                               |
| RAM           | DDR5 – 4800<br>2x DIMM, max. 64GB                                                                                                                                                                                                                                                                                                                                                                                                                                | DDR4 – 2933<br>4 x DIMM, max. 128GB                                                                                                                        | DDR4 – 2666,<br>4 x DIMM, max. 64GB                                                                                                                     | DDR4 - 2133,<br>2 x DIMM, max.32GB                                                                                                                                                                                       |
| Graphics      | VGA (up to 1920 x 1200@60Hz)<br>HDMI (up to 4096 x 2160@30Hz)<br>DVI-D (up to 1920 x 1200@60Hz)                                                                                                                                                                                                                                                                                                                                                                  | HDMI (up to 4096 x 2160@30Hz)                                                                                                                              | VGA (1920 x 1080)<br>DP (up to 4096 x 2304)                                                                                                             | VGA (1920 x 1200)<br>DVI-D (1920 x 1200)                                                                                                                                                                                 |
| Ethernet      | 2 GbE                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,5 GbE                                                                                                                                                    | 2 GbE                                                                                                                                                   | 2 GbE                                                                                                                                                                                                                    |
| SATA ports    | 6x SATA3<br>(support RAID 0,1,5,10)                                                                                                                                                                                                                                                                                                                                                                                                                              | 4x SATA3<br>(support RAID 0,1,5,10)                                                                                                                        | 6x SATA3<br>(support RAID 0,1,5,10)                                                                                                                     | 4x SATA3<br>(support RAID)                                                                                                                                                                                               |
| M.2 slots     | 1x M.2 M Key 2280<br>with PCI-E Gen4 x4                                                                                                                                                                                                                                                                                                                                                                                                                          | 1x M.2 A Key 2230 w/PCI-E x2/USB 2.0<br>1x M.2 B Key 3042/3052/2242/2280 w/SIM<br>holder with PCI-E Gen3 x2<br>1x M.2 M Key 2280/2242 with PCI-E x4        | 1x M.2 M key 2280, Gen3 PCI-E x4                                                                                                                        | --                                                                                                                                                                                                                       |
| USB           | 3x USB 3.2 Gen 2x1 (10Gbps) on rear I/O<br>6x USB 3.2 Gen 1x1 via headers<br>1x USB 3.2 Gen 1x1 vertical type A<br>4x USB 2.0 to backplane                                                                                                                                                                                                                                                                                                                       | 6x USB 2.0<br>6 x USB 3.2                                                                                                                                  | 7x USB 2.0<br>4x USB 3.2                                                                                                                                | 4x USB 2.0<br>8x USB 3.0                                                                                                                                                                                                 |
| COM           | 2x RS-232<br>2x RS-232/422/485                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2x RS-232<br>2x RS-422 / 485                                                                                                                               | 3x RS-232<br>1x RS-422 / 485                                                                                                                            | 2x RS232<br>2x RS232/422/485                                                                                                                                                                                             |
| KB/MS         | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NO                                                                                                                                                         | 1 x 16 pin                                                                                                                                              | 1 pin header for PS/2                                                                                                                                                                                                    |
| Other         | 91-49030-0010: Audio (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                  | Audio                                                                                                                                                      | Audio                                                                                                                                                   | Audio, LPT                                                                                                                                                                                                               |
| I/O Bracket   | 1x HDMI, 2x LAN, 3x USB 3.2                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1x HDMI , 2x LAN, 2x USB 3.2,<br>1x USB 3.2 Type C                                                                                                         | 1x VGA, 2x LAN, 2x USB 3.2                                                                                                                              | 1x VGA, 2x LAN, 2x USB                                                                                                                                                                                                   |

## Backplane



GO-3004  
1 x PCI-E x16  
1 x PCI-E x4

## Alimentatori (profondità max 295mm)

| <div>AC</div> <div></div> <div>EN 62368</div> <div><div><div>PMBus</div><div>PMBus</div></div></div> <div><div>Z-MRPS1-300-2AC</div><div>1U Redundant 300W</div><table><tr><th colspan="6">Output</th></tr><tr><th>+3.3V</th><th>+5V</th><th>+12V</th><th>-5V</th><th>-12V</th><th>+5VSB</th></tr><tr><td>20A</td><td>20A</td><td>24A</td><td>-</td><td>0.5A</td><td>3A</td></tr></table><div>Input 90 ~ 264VAC Full Range</div><div>MTBF 100.000 h</div><div>Dimensioni 106x41.5x260.5 mm</div></div> | Output |      |     |      |       |  | +3.3V | +5V | +12V | -5V | -12V | +5VSB | 20A | 20A | 24A | - | 0.5A | 3A | <div>AC</div> <div></div> <div>EN 62368</div> <div><div>PMBus</div><div>PMBus</div></div> <div><div>Z-M1R2-5600K2H-PM1.2</div><div>1U Redundant 600W</div><table><tr><th colspan="6">Output</th></tr><tr><th>+3.3V</th><th>+5V</th><th>+12V</th><th>-5V</th><th>-12V</th><th>+5VSB</th></tr><tr><td>22A</td><td>22A</td><td>50A</td><td>-</td><td>0.5A</td><td>3A</td></tr></table><div>Input 100 ~ 264VAC Full Range</div><div>MTBF --</div><div>Dimensioni 106x41.3x295 mm</div></div> | Output |  |  |  |  |  | +3.3V | +5V | +12V | -5V | -12V | +5VSB | 22A | 22A | 50A | - | 0.5A | 3A | <div>AC</div> <div></div> <div>EN 62368</div> <div><div>PMBus</div><div>PMBus</div></div> <div><div>Z-M1R2-5800K2H-PM1.2</div><div>1U Redundant 800W</div><table><tr><th colspan="6">Output</th></tr><tr><th>+3.3V</th><th>+5V</th><th>+12V</th><th>-5V</th><th>-12V</th><th>+5VSB</th></tr><tr><td>22A</td><td>22A</td><td>66A</td><td>-</td><td>0.5A</td><td>3A</td></tr></table><div>Input 100 ~ 264VAC Full Range</div><div>MTBF 183.332 h</div><div>Dimensioni 106x41.3x295 mm</div></div> | Output |  |  |  |  |  | +3.3V | +5V | +12V | -5V | -12V | +5VSB | 22A | 22A | 66A | - | 0.5A | 3A | <div>DC</div> <div></div> <div></div> <div><div>Z-DM1R2-5500V0H</div><div>1U Redundant 500W -48VDC</div><table><tr><th colspan="6">Output</th></tr><tr><th>+3.3V</th><th>+5V</th><th>+12V</th><th>-5V</th><th>-12V</th><th>+5VSB</th></tr><tr><td>22A</td><td>22A</td><td>41A</td><td>-</td><td>0.5A</td><td>3A</td></tr></table><div>Input -36 ~ -72VDC</div><div>MTBF -</div><div>Dimensioni 106x41.3x295 mm</div></div> | Output |  |  |  |  |  | +3.3V | +5V | +12V | -5V | -12V | +5VSB | 22A | 22A | 41A | - | 0.5A | 3A |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-----|------|-------|--|-------|-----|------|-----|------|-------|-----|-----|-----|---|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--|--|--|-------|-----|------|-----|------|-------|-----|-----|-----|---|------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--|--|--|-------|-----|------|-----|------|-------|-----|-----|-----|---|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--|--|--|-------|-----|------|-----|------|-------|-----|-----|-----|---|------|----|
| Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |     |      |       |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| +3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | +5V    | +12V | -5V | -12V | +5VSB |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| 20A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20A    | 24A  | -   | 0.5A | 3A    |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |     |      |       |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| +3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | +5V    | +12V | -5V | -12V | +5VSB |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| 22A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22A    | 50A  | -   | 0.5A | 3A    |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |     |      |       |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| +3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | +5V    | +12V | -5V | -12V | +5VSB |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| 22A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22A    | 66A  | -   | 0.5A | 3A    |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |      |     |      |       |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| +3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | +5V    | +12V | -5V | -12V | +5VSB |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |
| 22A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22A    | 41A  | -   | 0.5A | 3A    |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |  |  |  |  |  |       |     |      |     |      |       |     |     |     |   |      |    |