

# PC Industriali

## Serie GO-110E - Chassis per SBC 1.3



GO-110E: Vista posteriore  
con Single Board NUPRO-E43



GO-110E: Vista posteriore  
con Single Board NUPRO-E47

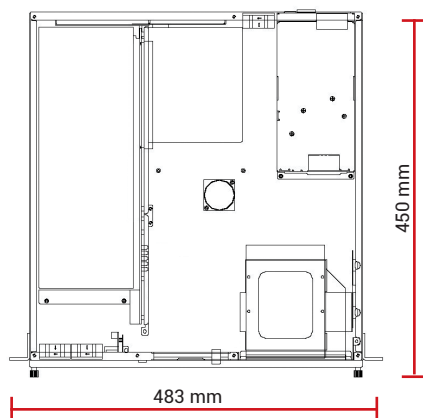
### PC Industriale 1U

Fino a 2 slot di espansione

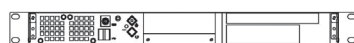
Configurato su richiesta

Burn in climatico su ogni apparato

Test Report di collaudo



Fronte



Retro



44 mm

### Chassis

IP-244- Rev.32

|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| Dimensioni     | Chassis 1U - 483 x 44 x 450 mm                                               |
| Montaggio      | Rack 19"                                                                     |
| Materiale      | Acciaio pre-zincato                                                          |
| Architettura   | Backplane passivo PICMG 1.3                                                  |
| Varianti       | • GOI-110E-3004: Chassis colore nero per backplane passivo PICMG 1.3 GO-3004 |
| Drives         | 1 x 5.25" Slim, 1 x 3.5" HDD oppure 1 x 5.25" (solo baia destra)             |
| Ventilazione   | 3 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, connettore PS2, 2 x USB                   |
| Retro          | Alloggiamento per 3 bracket full size, COM e USB                             |
| 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           | • Dischi interni HDD / SSD / M.2<br>• Cassetti estraibili singoli o multipli per HDD / SSD / U.2<br>• Soluzioni SATA / SAS / NVMe                                                                                   |
| Media             | • Masterizzatore DVD<br>• Lettore interno CFLASH, Memory Stick, SD Card, SDHC etc.<br>• Tastiera beige/nera italiana/inglese<br>• Mouse ottico                                                                      |
| Schede I/O        | • Ethernet Server Adapter<br>• GPGPU / Schede Video<br>• Schede Multi-Head<br>• Schede I/O Analogiche e Digitali<br>• Schede FPGA<br>• Schede MULTISERIALI<br>• Frame Grabber<br>• MIL-1553 / ARINC 429 / ARINC 418 |
| Guide             | Guide telescopiche per montaggio a rack                                                                                                                                                                             |
| Sistemi Operativi | • Windows® versioni Enterprise / Embedded<br>• Windows® versioni Server<br>• Linux                                                                                                                                  |

## Single Board

|               |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                                       |                                                                                                                                       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <b>NUPRO-E47</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>PCIE-Q470</b>                                                                                                                                           | <b>PCIE-Q370</b>                                                                                                                                        | <b>NUPRO-E43</b>                                                                                                                                                                                                         |
| 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 225 mm)

AC



EN 62368

Z-P1H-5400V  
1U Single 400W

| Output                     |     |      |     |      |       |
|----------------------------|-----|------|-----|------|-------|
| +3.3V                      | +5V | +12V | -5V | -12V | +5VSB |
| 22A                        | 22A | 32A  | -   | 0.8A | 3.5A  |
| Input                      |     |      |     |      |       |
| 90 ~ 264VAC Full Range     |     |      |     |      |       |
| MTBF 142.487 h             |     |      |     |      |       |
| Dimensioni 100x40.5x225 mm |     |      |     |      |       |

DC



EN 62368

Z-DP1H-5460V  
1U Single 460W - 48VDC

| Output                     |     |      |     |      |       |
|----------------------------|-----|------|-----|------|-------|
| +3.3V                      | +5V | +12V | -5V | -12V | +5VSB |
| 25A                        | 25A | 37A  | -   | 0.8A | 3A    |
| Input                      |     |      |     |      |       |
| ~36 ~ -72VDC               |     |      |     |      |       |
| MTBF 132.674 h             |     |      |     |      |       |
| Dimensioni 100x40.5x225 mm |     |      |     |      |       |



GO-110E  
Vista dall'alto  
senza copertura superiore