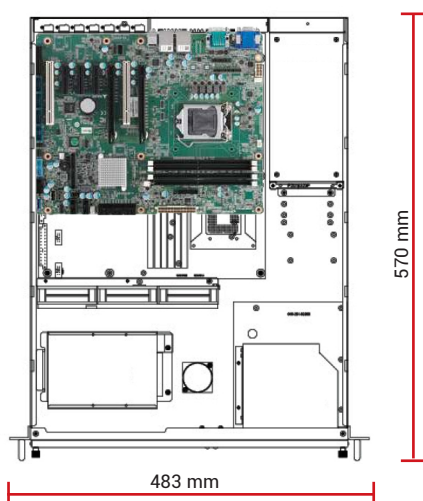


# PC Industriali

## Serie GO-215H - Chassis per Motherboard



PC Industriale 2U  
Configurato su richiesta  
Burn in climatico su ogni apparato  
Test Report di collaudo



### Chassis

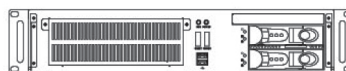
IP-342- Rev.11

|                |                                                                                                                                                                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensioni     | Chassis 2U - 483 x 88 x 570 mm                                                                                                                                                                                                                                                                       |
| Montaggio      | Rack 19"                                                                                                                                                                                                                                                                                             |
| Materiale      | Acciaio pre-zincato                                                                                                                                                                                                                                                                                  |
| Architettura   | Motherboard ATX max 12" x 13"                                                                                                                                                                                                                                                                        |
| Varianti       | <ul style="list-style-type: none"><li>• GO-215H: Chassis colore nero. Riser nel 6° slot.</li><li>• GO-215H-7TH-PF: Chassis colore nero. Riser nel 7° slot. Alimentatore singolo o ridondato.</li><li>• GO-215HR-7TH-PF: Chassis colore nero. Riser nel 7° slot. Alimentatore 2U ridondato.</li></ul> |
| Drives         | 1x 5.25" CD-ROM slim, 3x 3.5" HDD, 2x 3.5" estraibili                                                                                                                                                                                                                                                |
| Ventilazione   | 3 x ventole (80mm = 42.5 CFM cad.)                                                                                                                                                                                                                                                                   |
| Filtri         | 1 filtro per l'aria rimovibile dal fronte lavabile 30ppi                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                           |
| Retro          | Alloggiamento per 3 bracket full size                                                                                                                                                                                                                                                                |
| Colore         | Nero, beige 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... +45°C Storage -20°C... +70°C                                                                                                                                                                                                                                                        |

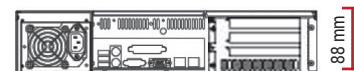
### Complementi

|                   |                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>• Masterizzatore DVD</li><li>• Tastiera beige/nera italiana/inglese</li><li>• Mouse ottico</li></ul>                                                                                                                                                             |
| Controller RAID   | SATA / SAS                                                                                                                                                                                                                                                                                             |
| Riser backplane   | <ul style="list-style-type: none"><li>• RISER2U-2X16: Riser 2U PCI-E x16</li><li>• ARC2-733-X160X4C5V3: Riser 2U PCI-E x16 - 1 x PCI-E x16 + 1 x PCI-E x4</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> |
| 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



## Motherboard

|                 | IMBA-ADL-Q670                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IMB-M47                                                                                                                                                 | IMBA-ADL-H610                                                                 | IMBA-Q471                                                                                                                                                                                                                            | IMBA-Q470                                                                                                | IMB-M45                                                                                                                                                                                                                                                           | IMB-M45H                                                                               |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 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>• i7-11700: 8C, 2.5GHz, 65W</li> <li>• i5-11500: 6C, 2.7GHz, 65W</li> <li>• i7-10700E: 8C, 2.9GHz, 65W</li> <li>• i5-10500E: 6C, 3.1GHz, 65W</li> <li>• i3-10100E: 4C, 3.2GHz, 65W</li> </ul> |                                                                                                          | <ul style="list-style-type: none"> <li>• i7-9700E: 8C, 2.6GHz, 65W</li> <li>• i5-9500E: 6C, 3.0GHz, 65W</li> <li>• i3-9100E: 4C, 3.1GHz, 65W</li> <li>• i7-8700: 6C, 3.2GHz, 65W</li> <li>• i5-8500: 6C, 3GHz, 65W</li> <li>• i3-8100: 4C, 3.6GHz, 65W</li> </ul> |                                                                                        |
| Chipset         | Intel Q670/Q670E                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Intel Q670                                                                                                                                              | Intel H610/H610E                                                              | Intel Q470/Q470E                                                                                                                                                                                                                     | Intel Q470E                                                                                              | Intel C246                                                                                                                                                                                                                                                        | Intel H310                                                                             |
| RAM             | DDR4-3200 MHz<br>4x DIMM max 128GB                                                                                                                                                                                                                                                                                                                                                                                                                               | DDR5-4400 MHz<br>4x DIMM max 128GB                                                                                                                      | DDR4-3200 MHz<br>2x DIMM max 64GB                                             | DDR4-2933 MHz<br>4x DIMM max 128GB                                                                                                                                                                                                   | DDR4-2933 MHz<br>4x DIMM max 128GB                                                                       | DDR4-2666 / 2400 MHz<br>4x DIMM max 128GB                                                                                                                                                                                                                         | DDR4-2666 / 2400 MHz<br>2x DIMM max 64GB                                               |
| Graphics        | DP, HDMI, IDIM                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VGA, DP, HDMI                                                                                                                                           | DP, HDMI, iDPM                                                                | VGA, DP, HDMI, DP                                                                                                                                                                                                                    | VGA, DP, HDMI<br>Internal Type-C DP                                                                      | VGA, DP, HDMI                                                                                                                                                                                                                                                     | VGA, HDMI                                                                              |
| Ethernet        | 2x 2.5 GbE                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3x 2.5 x GbE                                                                                                                                            | 1x 2.5 x GbE; 1x GbE                                                          | 3x 2.5 x GbE                                                                                                                                                                                                                         | 2x 2.5 x GbE                                                                                             | 2x GbE                                                                                                                                                                                                                                                            | 2x GbE                                                                                 |
| SATA ports      | 4x SATA3<br>(support RAID 0,1,5,10)                                                                                                                                                                                                                                                                                                                                                                                                                              | 8x SATA3<br>(support RAID 0,1,5,10)                                                                                                                     | 4x SATA3<br>(support RAID 0,1,5,10)                                           | 5x SATA3<br>(support RAID 0,1,5,10)                                                                                                                                                                                                  | 4x SATA3<br>(support RAID 0,1,5,10)                                                                      | 6 x SATA3<br>(support RAID 0,1,5,10)                                                                                                                                                                                                                              | 4 x SATA3                                                                              |
| M.2 slots       | 1x M.2 M key 2242/80<br>1x M.2 M key 2242/80                                                                                                                                                                                                                                                                                                                                                                                                                     | 1x M.2 M-Key,<br>up to 25110, PCIe<br>1x M.2 E-Key, 2230, PCIe,<br>USB 2.0 and CNV<br>1x M.2 B-Key, 3042/3052,<br>PCIe, USB3.2 Gen1, USB<br>2.0 and SIM | --                                                                            | 1x M.2 M-key 2242 / 2280,<br>PCIe, SATA                                                                                                                                                                                              | 1x M.2 A key 2230 PCI-E x1<br>/ USB 2.0<br>1x M.2 M key 2242 / 2280<br>PCI-E x4                          | --                                                                                                                                                                                                                                                                | --                                                                                     |
| USB             | External<br>4x USB 3.2 Gen2<br>2x USB 3.2 Gen1<br>Internal<br>4x USB 2.0 via header<br>2x USB 3.2 Gen1 via<br>header                                                                                                                                                                                                                                                                                                                                             | 5x USB 3.2 Gen2<br>1x USB 3.2 Gen2x2<br>(Type C)<br>2x USB 3.1 via header<br>2x USB 2.0 via header<br>2x vertical USB 2.0<br>connectors                 | 2x USB 3.2 Gen 1<br>2x USB 3.2 Gen 2<br>4x USB 2.0<br>2x USB 2.0 via header   | 2 x USB 3.2 Gen 2<br>2 x USB 3.2 Gen 1<br>2 x USB 3.2 Gen1 via header<br>2 x USB 2.0<br>6 x USB 2.0 via header                                                                                                                       | 2x USB 3.2 Gen2<br>2x USB 3.2 Gen1<br>2 x USB 3.1 Gen1 via header<br>2x USB 3.0<br>6x USB 2.0 via header | 4x USB 3.1 Gen2 connectors<br>(rear)<br>2x USB 3.1 Gen1 via header<br>1x USB 3.1 Gen1<br>(vertical type A connector)<br>6x USB 2.0 via header<br>1x USB 2.0<br>(vertical type A connector)                                                                        | 4 x USB 3.0<br>2 x USB 2.0                                                             |
| COM             | 2x RS-232/422/485<br>4x RS-232                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2x RS-232/422/485<br>4x RS-232                                                                                                                          | 2 x RS-232/422/485<br>4 x RS-232                                              | 1 x RS-422/485<br>2 x RS-232                                                                                                                                                                                                         | 1 x RS-232/422/485<br>2 x RS-232                                                                         | 2 x RS-232/422/485<br>4 x RS-232                                                                                                                                                                                                                                  | 2x RS-232/455/485<br>4x RS-232                                                         |
| Other           | Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Audio, LPT, PS2; 8x GPI,<br>8x GPO                                                                                                                      | Audio, Digital IO                                                             | Audio, Digital IO                                                                                                                                                                                                                    | Digital IO                                                                                               | Audio, PS2 combo, LPT,<br>DIO                                                                                                                                                                                                                                     | Audio, LPT, PS2 Combo,<br>DIO                                                          |
| TPM             | TPM 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TPM 2.0                                                                                                                                                 | TPM 2.0                                                                       | TPM 2.0                                                                                                                                                                                                                              | TPM 2.0                                                                                                  | --                                                                                                                                                                                                                                                                | --                                                                                     |
| Expansion slots | 1 x PCIe Gen4 x16<br>1 x PCIe x4 open-end slot<br>2 x PCIe x4 open-end slot<br>2 x PCIe x1, 1 x PCI                                                                                                                                                                                                                                                                                                                                                              | 1x PCI-E x16<br>1x PCI-E x8<br>2x PCI-E x4<br>3x PCI-E x1                                                                                               | 1* PCI-E x16<br>1* PCI-E x4<br>2* PCI-E x1<br>2* PCI                          | 2* PCI-E x16<br>3* PCI-E x4 open-end<br>2* PCI-E x1                                                                                                                                                                                  | 1* PCI-E x16<br>3* PCI-E x4 open-end<br>3* PCI                                                           | 1* PCI-E x16<br>Or<br>2* PCI-E x8 +<br>3* PCI-E x4<br>2* PCI                                                                                                                                                                                                      | 1* PCI-E x16<br>1* PCI-E x4<br>5* PCI                                                  |
| I/O shield      | HDMI, DP, 2x GbE,<br>1x RS-232/422/485, 6x<br>USB 3.2,<br>1x RJ-45 for IPMI                                                                                                                                                                                                                                                                                                                                                                                      | VGA, HDMI, DP<br>3x 2.5GbE<br>2x RS-232/422/485, Audio<br>5x USB 3.2, 1x USB 3.2                                                                        | HDMI, DP<br>1x GbE, 1x 2.5 GbE<br>2x RS-232/422/485<br>6x USB 3.2, 4x USB 2.0 | VGA, HDMI, DP<br>3x 2.5GbE<br>1x RS-232, Audio<br>4x USB 3.2, 2x USB 2.0                                                                                                                                                             | VGA, HDMI, DP<br>2x 2.5GbE<br>1x RS-232/422/485,<br>2x RS-232, Audio, PS2<br>4x USB 3.2, 2x USB 2.0      | VGA, HDMI, DP<br>2x GbE<br>2x RS-232/422/485, Audio<br>4x USB 3.1                                                                                                                                                                                                 | VGA, HDMI<br>2x GbE<br>2x RS-232/455/485<br>4x USB 3.0, 2x USB 2.0<br>Audio, PS2 Combo |

## Alimentatori (profondità max 300 mm)

AC



EN 62368

Z-P2H-5400V: 2U Single 400W

| Output                            |     |      |     |      |       |
|-----------------------------------|-----|------|-----|------|-------|
| +3.3V                             | +5V | +12V | -5V | -12V | +5VSB |
| 22A                               | 22A | 32A  | -   | 0.8A | 3.5A  |
| Intervallo 90 ~ 264VAC Full Range |     |      |     |      |       |
| MTBF 144.647 h                    |     |      |     |      |       |
| Dimensioni 100x70x215 mm          |     |      |     |      |       |

AC



EN 62368

Z-P2M-5800V: 2U Single 800W

| Output                             |     |      |     |      |       |
|------------------------------------|-----|------|-----|------|-------|
| +3.3V                              | +5V | +12V | -5V | -12V | +5VSB |
| 25A                                | 25A | 62A  | -   | 0.8A | 3.0A  |
| Intervallo 100 ~ 240VAC Full Range |     |      |     |      |       |
| MTBF 93.283 h                      |     |      |     |      |       |
| Dimensioni 100x70x280 mm           |     |      |     |      |       |

AC



EN 62368

Z-FSP800-50FS: 2U Red 800W

| Output                    |     |      |     |      |       |
|---------------------------|-----|------|-----|------|-------|
| +3.3V                     | +5V | +12V | -5V | -12V | +5VSB |
| 25A                       | 25A | 65A  | -   | 0.3A | 4.5A  |
| Intervallo 90 ~ 264VAC    |     |      |     |      |       |
| MTBF 500.000 h            |     |      |     |      |       |
| Dimensioni 76x83.8x250 mm |     |      |     |      |       |

AC



EN 62368

Z-R2G-5600V4V: 2U Red 600W

| Output                             |     |      |     |      |       |
|------------------------------------|-----|------|-----|------|-------|
| +3.3V                              | +5V | +12V | -5V | -12V | +5VSB |
| 25A                                | 25A | 48A  | -   | 0.8A | 3.5A  |
| Intervallo 100 ~ 240VAC Full Range |     |      |     |      |       |
| MTBF 142.896 h                     |     |      |     |      |       |
| Dimensioni 101x82x276 mm           |     |      |     |      |       |



GO-215H  
Vista dall'alto  
senza copertura superiore