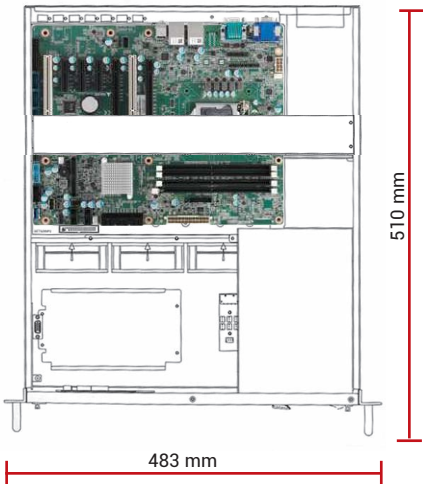


# Workstation Industriali

## Serie GO-M41ATX - Chassis per Motherboard



Workstation Industriale 4U  
Display 7" TFT integrato  
Tastiera Cherry con trackball  
Configurato su richiesta  
Burn in climatico su ogni apparato  
Test Report di collaudo



### Chassis

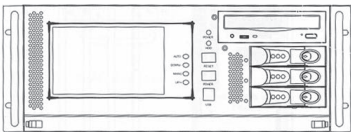
IP-269 - Rev.21

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| Dimensioni     | Chassis 4U - 483 x 177 x 510 mm                                           |
| Montaggio      | Rack 19"                                                                  |
| Materiale      | Acciaio pre-zincato                                                       |
| Architettura   | Motherboard ATX max 12" x 10.5"                                           |
| Varianti       | GO-M41ATX: Chassis colore nero                                            |
| Drives         | 1x 5.25" & 3x 3.5" Swappable Trays & 3x 3.5"HDD                           |
| Display        | 7" TFT (800 x 400)                                                        |
| Tastiera       | 83/84 tasti US, trackball                                                 |
| Ventilazione   | 3 x ventole 92 mm (= 51.0CFM cad.)<br>& 2 x ventole 60 mm (=23.5CFM cad.) |
| Led sul fronte | LED per Power e funzionalità HDD                                          |
| Pulsanti       | Power ON/OFF, System Reset , Display menu                                 |
| Fronte         | 2 x USB                                                                   |
| Retro          | Alloggiamento per 7 bracket full size                                     |
| Colore         | Nero o altri colori su richiesta                                          |
| Shock          | 15g durata 11ms - EN 60068-2-27                                           |
| Vibrazioni     | 10-150Hz: 1G - EN 60068-2-6                                               |
| Umidità        | 5 - 95% non condensata                                                    |
| Temperatura    | Operativa 0°C... +50°C Storage -20°C... +70°C                             |

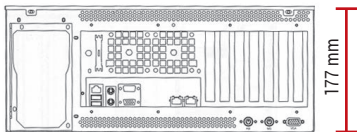
### Complementi

|                   |                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage           | <ul style="list-style-type: none"><li>• Dischi interni HDD / SSD / M.2</li><li>• Cassetti estraibili singoli o multipli per HDD / SSD / U.2</li><li>• Soluzioni SATA / SAS / NVMe</li></ul>                                                                                                            |
| Media             | <ul style="list-style-type: none"><li>• Masterizzatore DVD</li><li>• Lettore interno CFLASH, Memory Stick, SD Card, SDHC etc.</li><li>• Tastiera beige/nera italiana/inglese</li><li>• Mouse ottico</li></ul>                                                                                          |
| Controller RAID   | SATA / SAS / NVMe                                                                                                                                                                                                                                                                                      |
| 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>                                                                                                                                                           |

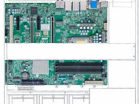
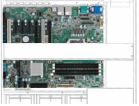
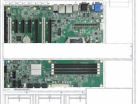
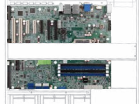
Fronte



Retro



## Motherboard

|                        |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                 |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CPU Preferred</b>   | <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: 10C, 2.50GHz, 65-148W</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>• i9-10900E-2G8: 10C, 3.3GHz, 65W</li> <li>• i9-10900-2G8: 10C, 3.3GHz, 65W</li> <li>• i7-10700E-2G9: 8C, 2.9GHz, 65W</li> <li>• i5-10400-2G9: 8C, 2.9GHz, 65W</li> </ul> | <ul style="list-style-type: none"> <li>• E-2278GE: 8C, 3.3GHz, 80W</li> <li>• E-2226GE: 6C, 3.4GHz, 80W</li> <li>• i7-9700E: 8C, 2.6GHz, 65W</li> <li>• i5-9500E: 6C, 3.0GHz, 65W</li> <li>• i3-9100E: 4C, 3.1GHz, 65W</li> </ul> | <ul style="list-style-type: none"> <li>• E3-1275V5: 4C, 3.6GHz, 80W</li> <li>• E3-1225V5: 4C, 3.3GHz, 80W</li> <li>• E3-1275V6: 4C, 3.80GHz, 73W</li> <li>• E3-1225V6: 4C, 3.30GHz, 73W</li> <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> <li>• i3-6100: 2C 3.7GHz, 51W</li> </ul> | <ul style="list-style-type: none"> <li>• E3-1275V5: 4C, 3.6GHz, 80W</li> <li>• E3-1225V5: 4C, 3.3GHz, 80W</li> <li>• E3-1275V6: 4C, 3.80GHz, 73W</li> <li>• E3-1225V6: 4C, 3.30GHz, 73W</li> <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> <li>• i3-6100: 2C 3.7GHz, 51W</li> </ul> |
| <b>Chipset</b>         | Intel W680                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Intel W480                                                                                                                                                                                                       | Intel C246                                                                                                                                                                                                                        | Intel C236                                                                                                                                                                                                                                                                                                                                                                                                            | Intel C236                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RAM</b>             | DDR5-4400MHz<br>4x DIMM max 128GB<br>Unbuffered ECC/non-ECC UDIMM                                                                                                                                                                                                                                                                                                                                                                                                | DDR4-2933MHz<br>4x DIMM max 128GB<br>Unbuffered ECC/non-ECC UDIMM                                                                                                                                                | DDR4-2666MHz<br>4x DIMM max 128GB<br>Unbuffered ECC/non-ECC UDIMM                                                                                                                                                                 | DDR4-2133 / 2400MHz<br>4x DIMM max 64GB<br>Unbuffered ECC/non-ECC UDIMM                                                                                                                                                                                                                                                                                                                                               | DDR4 - 2133MHz<br>4x DIMM, max 64GB<br>Unbuffered ECC/non-ECC UDIMM                                                                                                                                                                                                                                                                                                                                                   |
| <b>Graphics</b>        | VGA, DVI-D, DP, HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                             | VGA, HDMI, DVI-D, DP                                                                                                                                                                                             | VGA, HDMI, DP                                                                                                                                                                                                                     | VGA, 2 DP                                                                                                                                                                                                                                                                                                                                                                                                             | VGA, DVI-D, HDMI, iDP                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ethernet</b>        | 2 GbE                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 GbE                                                                                                                                                                                                            | 2 GbE                                                                                                                                                                                                                             | 2 GbE                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 GbE                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SATA Ports</b>      | 8x SATA3 600,<br>(support RAID 0,1,5,10)                                                                                                                                                                                                                                                                                                                                                                                                                         | 4x SATA3 600,<br>(support RAID 0,1,5,10)                                                                                                                                                                         | 6x SATA3 600,<br>(support RAID 0,1,5,10)                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>M.2 Slots</b>       | 3x M.2 M-Key 2280,<br>PCI-E 4.0 x4                                                                                                                                                                                                                                                                                                                                                                                                                               | 2x M.2 M-Key 2280/110,<br>PCI-E 3.0 x4                                                                                                                                                                           | --                                                                                                                                                                                                                                | --                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>NVME Ports</b>      | --                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                                                                               | --                                                                                                                                                                                                                                | --                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>USB</b>             | 4x USB 2.0 (2 via header; 2 rear)<br>3x USB 3.2 Gen1<br>4x USB 3.2 Gen2<br>2x USB 3.2 Gen2x2                                                                                                                                                                                                                                                                                                                                                                     | 2x USB 2.0<br>3x USB 3.2 Gen1<br>5x USB 3.2 Gen2                                                                                                                                                                 | 6x USB 3.1 Gen2<br>6x USB 2.0                                                                                                                                                                                                     | 6x USB 2.0<br>8x USB 3.0                                                                                                                                                                                                                                                                                                                                                                                              | 6x USB 2.0<br>5x USB 3.0                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>COM</b>             | 1x COM Header                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1x COM Header                                                                                                                                                                                                    | 2x RS-232/422/485<br>4x RS-232                                                                                                                                                                                                    | 4x RS-232<br>2x RS-232/422/485                                                                                                                                                                                                                                                                                                                                                                                        | 4x RS-232<br>2x RS-422/485                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other</b>           | Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Audio                                                                                                                                                                                                            | Audio, PS2 combo, LPT, DIO                                                                                                                                                                                                        | Audio, PS2, LPT, DIO                                                                                                                                                                                                                                                                                                                                                                                                  | Audio                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Expansion slots</b> | <ul style="list-style-type: none"> <li>• 2x PCI-E 5.0 x16</li> <li>• 2x PCI-E 3.0 x4</li> <li>• 1x PCI</li> </ul>                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>• 1x PCI-E 3.0 x4,</li> <li>• 2x PCI-E 3.0 x16 (16/NA or 8/8)</li> <li>• 1x PCI 32bit</li> </ul>                                                                          | <ul style="list-style-type: none"> <li>• 2x PCI-E 3.0 x16 (16/NA or 8/8)</li> <li>• 3x PCI-E x4 Gen.3</li> <li>• 2x PCI</li> </ul>                                                                                                | <ul style="list-style-type: none"> <li>• 2x PCI-E 3.0 x16</li> <li>• 1x PCI-E 3.0 x4</li> <li>16/NA/NA or 8/8/NA or 4/4/8</li> <li>• 2x PCI-E x4 Gen.3</li> <li>• 2x PCI</li> </ul>                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• 2x PCI-E 3.0 x8</li> <li>• 2 x PCI</li> <li>• 3x PCI-E 3.0 x4</li> </ul>                                                                                                                                                                                                                                                                                                     |
| <b>I/O shield</b>      | 1x DP, 1x HDMI, 1x VGA,<br>1x DVI-D, IPMI LAN, 2x USB 2.0,<br>4x USB 3.2, 2x GbE, Audio                                                                                                                                                                                                                                                                                                                                                                          | 1x DP, 1x HDMI, 1x VGA,<br>1x DVI-D, IPMI LAN, 6x USB 3.2,<br>2x GbE, 6x USB 3, Audio                                                                                                                            | 1x DP 1.2, 1x HDMI 1.4, 1x VGA,<br>4x USB 3.1 Gen2<br>2x RS-232/422/485<br>2x GbE , Audio                                                                                                                                         | 2x DP, 1x VGA, PS2, 6x USB,<br>2x LAN, 2x COM,<br>Audio                                                                                                                                                                                                                                                                                                                                                               | 1x HDMI, 1x VGA,<br>1x DVI-D,<br>PS2, 6x USB,<br>2x LAN, Audio                                                                                                                                                                                                                                                                                                                                                        |

## Alimentatori

**AC**



**EN 62368**

**FSP600-80PSA**  
PS2 Single 600W

| Output |     |      |      |      |       |
|--------|-----|------|------|------|-------|
| +3.3V  | +5V | +12V | -5V  | -12V | +5VSB |
| 25A    | 25A | 16A  | 0.1A | 0.5A | 4A    |

Input 90~264VAC Full Range  
MTBF 100.000 h  
Dimensioni 150x86x140 mm

**AC**



**EN 62368**

**Z-HG2-5600V**  
PS2 Single 600W

| Output |     |      |     |      |       |
|--------|-----|------|-----|------|-------|
| +3.3V  | +5V | +12V | -5V | -12V | +5VSB |
| 25A    | 25A | 45A  | -   | 0.8A | 3.5A  |

Input 100~240VAC Full Range  
MTBF 171.848 h  
Dimensioni 150x86x140 mm

**AC**



**EN 62368**

**Z-MRPS2-500-2AC**  
PS2 Redundant 500W

| Output |     |      |      |      |       |
|--------|-----|------|------|------|-------|
| +3.3V  | +5V | +12V | -5V  | -12V | +5VSB |
| 20A    | 20A | 40A  | 0.3A | 0.5A | 3A    |

Input 90V~264VAC  
MTBF >100.000 h  
Dimensioni 150x84x190 mm

**DC**



**EN 62368**

**BES-540C**  
PS2 Single 400W 24VDC

| Output |     |      |     |      |       |
|--------|-----|------|-----|------|-------|
| +3.3V  | +5V | +12V | -5V | -12V | +5VSB |
| 25A    | 25A | 30A  | -   | 0.8A | 3.5A  |

Input 20VDC...36VDC  
MTBF 121.000 h  
Dimensioni 150x86x140 mm

**DC**



**Z-BMRW-5360V4V**  
PS2 Redundant 360W 24VDC

| Output |     |      |     |      |       |
|--------|-----|------|-----|------|-------|
| +3.3V  | +5V | +12V | -5V | -12V | +5VSB |
| 25A    | 25A | 28A  | -   | 0.8A | 3.5A  |

Input 18VDC...36VDC  
MTBF 125.331 h  
Dimensioni 150x86x185 mm

**DC**



**EN 62368**

**BES-540T**  
PS2 Single 400W -48VDC

| Output |     |      |     |      |       |
|--------|-----|------|-----|------|-------|
| +3.3V  | +5V | +12V | -5V | -12V | +5VSB |
| 25A    | 25A | 32A  | -   | 0.8A | 3.5A  |

Input -36VDC...-72VDC  
MTBF 143.878 h  
Dimensioni 150x86x140 mm

**DC**



**Z-DMRW-5600V4V**  
PS2 Redundant 600W -48VDC

| Output |     |      |     |      |       |
|--------|-----|------|-----|------|-------|
| +3.3V  | +5V | +12V | -5V | -12V | +5VSB |
| 25A    | 25A | 45A  | -   | 0.8A | 3.5A  |

Input -36VDC...-72VDC  
MTBF 120.000 h  
Dimensioni 150x86x185 mm