

# PC Industriali

## Serie TWR-1213-7S-USB30 - Light Industrial



Tower

Alloggiamento per sette schede full size  
(7 slot totali)

Prodotto long life

Configurato su richiesta

Burn in climatico su ogni apparato

Test Report di collaudo

### Chassis

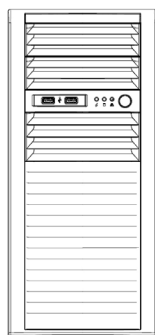
IP-369- Rev.2

|                |   |
|----------------|---|
| Dimensioni     | Tower - 193 x 424 x 525 mm  |
| Materiale      | Acciaio pre-zincato   |
| Architettura   | Motherboard ATX 12" x 13"   |
| Varianti       | TWR-1213-7S-USB30: Tower colore nero                              |
| Drives         | 2 x 5.25" & 4 x 3.5" interni                                      |
| Ventilazione   | 1 x ventola posteriore con PWM 120 mm                             |
| Led sul fronte | Power On/Off, funzionalità HDD, Network e System Overheat         |
| Pulsanti       | Power On/Off  |
| Fronte         | 2 x USB 3.0   |
| Retro          | Alloggiamento per 7 bracket full size con blocco schede full size |
| Alimentazione  | Alimentatore PS2 singolo ATX 668W (no PMBus)                      |
| Colore         | Nero  |
| Umidità        | 5 - 90% non condensata  |
| Temperatura    | Operativa 0°C... +50°C Storage -20°C... +80°C                     |

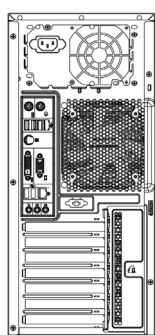
### Complementi

|                   |   |
|-------------------|---|
| 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> |
| 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



|                        | IMB-M43H  | IMB-M43   | IMBA-Q170-i2  | RUBY-D718VG2AR  | IMBA-Q870-i2   |
|------------------------|---|---|---|---|--|
| <b>CPU Preferred</b>   | <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> <li>• i3-6100: 2C 3.7GHz, 51W</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> <li>• i3-6100: 2C 3.7GHz, 51W</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> <li>• i3-6100: 2C 3.7GHz, 51W</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> <li>• i3-6100: 2C 3.7GHz, 51W</li> </ul> | <ul style="list-style-type: none"> <li>• i7-4770S: 4C, 3.1GHz, 65W</li> <li>• i5-4570S: 4C, 2.9GHz, 65W</li> </ul> |
| <b>Chipset</b>         | Intel H110 Express  | Intel Q170 Express  | Intel Q170 Express  | Intel Q170 Express  | Intel Q87  |
| <b>RAM</b>             | DDR4 - 2133/2400, max 32GB  | DDR4 - 2133/2400, max 64GB  | DDR4 - 2133/2400, max 64GB  | DDR4 - 2133/2400, max 64GB  | DDR3 - 1600/1333, 4 x DIMM max 32GB  |
| <b>Graphics</b>        | VGA, HDMI   | VGA, 2 x DP   | VGA, DVI-D, HDMI 2.0, iDP   | VGA, DVI-D, HDMI  | VGA, DVI-D, HDMI, iDP  |
| <b>Ethernet</b>        | 2x GbE  | 2x GbE  | 2x GbE  | 2x GbE  | 2x GbE   |
| <b>SATA ports</b>      | 4 x SATA 600  | 6 x SATA 600 (support RAID 0,1,5,10)  | 6 x SATA 600 (support RAID 0,1,5,10)  | 6 x SATA 600 (support RAID 0,1,5,10)  | 6 x SATA 600 (support RAID 0,1,5,10)   |
| <b>M.2 slots</b>       | --  | --  | --  | --  | --   |
| <b>USB</b>             | 4 x USB 3.0, 2 x USB 2.0<br>2 x USB 2.0 pin header<br>2 x USB 2.0 vertical type A   | 6 x USB 3.0<br>2 x USB 3.0 pin header<br>4 x USB 2.0<br>4 x USB 2.0 pin header  | 4 x USB 3.0<br>2 x USB 2.0  | 4 x USB 3.0<br>2 x USB 3.0 pin header<br>8 x USB 2.0 pin header   | 4 x USB 3.0<br>8 x USB 2.0   |
| <b>COM</b>             | 2 x RS-232/455/485<br>4 x RS-232  | 2 x RS-232/455/485<br>4 x RS-232  | 2 x RS-232/422/485<br>4 x RS-232  | 2 x RS-232/422/485<br>4 x RS-232  | 5 x RS-232<br>1 x RS-422/485   |
| <b>Other</b>           | Audio, PS2, LPT, DIO  | PS2, LPT, DIO   | Audio, PS2, LPT   | Audio   | Audio, PS2, LPT, Triple Display  |
| <b>Expansion slots</b> | 1*PCI-E x16 Gen3<br>1*PCI-E x4 Gen2<br>5* PCI 2.2   | PEG: 2* PCIe x16 (Gen3)<br>1*PCI-E x4 (Gen3);<br>2*PCI-E x4 (Gen3)<br>2* PCI  | 2* PCI-E x8 (Gen3)<br>3* PCI-E x4 (Gen3)<br>2* PCI<br>1* Full-size PCIe Mini card   | 1* PCI-E x16 (Gen3)<br>2* PCI-E x4<br>4* PCI  | 1*PCI-E x16 (Gen3), 1*PCI-E x1,<br>1*PCI-E x4, 4*PCI   |
| <b>I/O shield</b>      | 2x RS232/422/485<br>1x VGA, 2x HDMI<br>6x USB 3.0, 2x GbE<br>Audio, PS2   | 2 x RS232/422/485,<br>1 x VGA, 2 x DP, 6 x USB 3.0,<br>2 x GbE, PS2   | 1 x RS-232, 1 x DVI-D,<br>1 x VGA, 1 x HDMI,<br>2 x USB 2.0, 4 x USB 3.0,<br>2 x GbE, Audio, PS2  | 2 x RS-232, 1 x DVI-D,<br>1 x VGA, 1 x HDMI,<br>4 x USB 3.0, 2 x GbE, Audio   | 2 x GbE, 4 x USB 2.0,<br>2 x USB 3.0, 1 x PS2,<br>1 x COM, 1 x HDMI,<br>1 x VGA, 1 x DVI-D, Audio                  |