

## Model Comparison CS2200 Series

Variants



|                                        | CS2201                                        | CS2202                                        | CS2207                                        | CS2209                                        | CS2212                                        | CS2213                                        | CS2214                                        | CS2221                                        | CS2222                                         | CS2241                                        | CS2243                                        | CS2245                                        | C2246                                         |
|----------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Product Picture                        |                                               |                                               |                                               |                                               |                                               |                                               |                                               |                                               |                                                |                                               |                                               |                                               |                                               |
| Connector type                         | MIL                                           | MIL                                           | MIL                                           | MIL                                           | MIL                                           | MIL                                           | MIL                                           | Industrial                                    | Industrial                                     | MIL                                           | MIL                                           | MIL                                           | MIL                                           |
| Processor                              | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)       | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      | Intel Xeon-E 2276ML 6 cores (12 threads)      |
| RAM                                    | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB DDR4 ECC                           | Up to 64GB                                    | Up to 64GB                                     | Up to 64GB                                    | Up to 64GB                                    | Up to 64GB                                    | Up to 64GB                                    |
| Graphics                               | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                          | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         | Intel HD Graphics 630                         |
| Storage                                | 1x M.2 NVMe (internal)                        | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                       | 1x M.2 SATA (internal)                        | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                        | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (removable)                       | 1x M.2 NVMe (internal)                        | 1x M.2 NVMe (internal)                        |
| Dimensions (WxDH)                      | 220 x 341 x 43.4 mm (8.7 x 13.4 x 1.7 inch)   | 220 x 341 x 43.4 mm (8.7 x 13.4 x 1.7 inch)   | 220 x 353 x 43.4 mm (8.7 x 13.9 x 1.7 inch)   | 220 x 353 x 43.4 mm (8.7 x 13.9 x 1.7 inch)   | 220 x 335 x 43.4 mm (8.7 x 13.2 x 1.7 in)     | 220 x 349 x 43.4 mm (8.7 x 13.7 x 1.7 inch)   | 220 x 349 x 43.4 mm (8.7 x 13.7 x 1.7 inch)   | 220 x 341 x 43.4 mm (8.66 x 13.4 x 1.71 inch) | 220 x 375 x 43.4 mm (8.66 x 14.76 x 1.71 inch) | 220 x 380 x 43.4 mm (8.7 x 15.0 x 1.7 inch)   | 220 x 365 x 43.4 (8.7 x 14.4 x 1.7 inch)      | 220 x 355 x 43.4 mm (8.7 x 13.9 x 1.7 inch)   | 220 x 406.7 x 43.4 mm (8.7 x 16 x 1.7 inch)   |
| Weight                                 | 3.5 kg (7.8 lbs)                              | 3.5 kg (7.8 lbs)                              | 3.5 kg (7.8 lbs)                              | 3.5 kg (7.8 lbs)                              | 3.8 kg (8.4 lbs)                              | 3.5 kg (7.8 lbs)                              | 3.5 kg (7.8 lbs)                              | 3.5 kg (7.8 lbs)                              | 4 kg (8.9 lbs)                                 | 3.7 kg (8.2 lbs)                              | 3.8 kg (8.4 lbs)                              | TBD                                           | TBD                                           |
| Power consumption (excl. startup peak) | Idle: 13W<br>Typical: 60W<br>Max: 100         | Idle: 13W<br>Typical: 60W<br>Max: 100W        | Idle 25 W<br>Typ 60 W<br>Max 100 W            | Idle 25 W<br>Typ 60 W<br>Max 100 W            | Idle 25 W<br>Typ 60 W<br>Max 100 W            | Idle 15 W<br>Typ 65 W<br>Max 100 W            | Idle 15 W<br>Typ 65 W<br>Max 100 W            | Idle: 13W<br>Typical: 60W<br>Max: 100W        | Idle: 25W<br>Typical: 55W<br>Max: 95W          | Idle: 21W<br>Typical: 57W<br>Max: 91W         | Idle: 25W<br>Typical: 70W<br>Max: 100W        | TBD                                           | TBD                                           |
| Diskbay                                | -                                             | MD8201                                        | MD8201                                        | MD8201                                        | MD8201                                        | -                                             | -                                             | MD8201                                        | MD8201                                         | MD8201                                        | MD8201                                        | -                                             | MD8201                                        |
| CAN                                    | -                                             | -                                             | 2x CAN2.0B                                    | 2x CAN2.0B                                    | -                                             | -                                             | -                                             | -                                             | -                                              | -                                             | -                                             | -                                             | 1x CAN2.0B<br>1x CAN2.0B (RX only)            |
| Video                                  | 1x VGA<br>1x DVI                              | 1x VGA<br>1x DVI                              | 2x DVI<br>2x SDI out**                        | 1x DVI<br>2x SDI out                          | 2x DVI                                        | 2x VGA                                        | 1x VGA<br>1x DVI                              | 1x VGA<br>1x HDMI<br>1x DVI                   | 3x HDMI                                        | 1x DVI                                        | 2x DVI                                        | 1x DVI                                        | 1x DVI<br>2x SDI out                          |
| Ethernet                               | 4x 1000Base-T                                 | 4x 1000Base-T                                 | 4x 1000Base-T                                 | 4x 1000Base-T                                 | 1 X 1000Base-SX                               | 4x 1000Base-T                                 | 4x 1000Base-T                                 | 4x 1000Base-T                                 | 2x 1000Base-T                                  | 2x 1000Base-T                                 | 2x 1000Base-SX                                | 2x 1000Base-SX<br>2x 1000Base-T               | 3X 1000Base-T                                 |
| Serial                                 | 3x RS232* (Full)                              | 3x RS232* (Full)                              | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)         | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)         | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)         | 2x RS232* (Full)                              | 2x RS232* (Full)                              | 2x RS232 (Full)                               | -                                              | 1x RS232 (Rx/Tx)                              | 1x RS232* (Full)                              | -                                             | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)         |
| USB                                    | 2x USB 3.2 Gen 1<br>3x USB2.0                 | 2x USB 3.2 Gen 1<br>3x USB2.0                 | 2x USB 3.2 Gen 1<br>7x USB2.0                 | 2x USB 3.2 Gen 1<br>7x USB2.0                 | 2x USB 3.2 Gen 1<br>7x USB2.0                 | 6x USB2.0                                     | 6x USB2.0                                     | 4x USB3.2 Gen 1<br>4x USB2.0                  | 2x USB3.2 Gen 1<br>4x USB2.0                   | 1x USB 3.2 Gen 1<br>4x USB2.0                 | 1x USB 3.2 Gen 1<br>2x USB2.0                 | 1x USB 3.2 Gen 1<br>1x USB2.0                 | 2x USB 3.2 Gen 1<br>6x USB2.0                 |
| Service                                | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | -                                              | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             | 1x MilDef Service                             |
| Wireless                               | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                              | -                                             | -                                             | -                                             | -                                             |
| GPS/GNSS                               | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                              | -                                             | -                                             | -                                             | GPS                                           |
| Other interfaces                       | Audio, Remote power on                        | Audio, Remote power on                        | Audio, Remote power on                        | Audio, Remote power on                        | Audio                                         | Audio, Digital I/O                            | Audio, Digital I/O                            | -                                             | -                                              | Audio, Digital I/O                            | Remote power on                               | -                                             | Audio, Digital I/O, Remote power on           |
| Fan                                    | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                             | -                                              | -                                             | -                                             | -                                             | -                                             |
| Power connector                        | 38999/20ZB98PN                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                | ITT CA-B (ITS)                                | ITT CA-B (ITS)                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                 | 38999/20FB35SN                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                | 38999/20ZB98PN                                |
| Power                                  | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                      | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     | 12-32V DC                                     |
| IP rating                              | IP65                                          | IP65                                          | IP65                                          | IP65                                          | IP67                                          | IP65                                          | IP65                                          | IP65                                          | IP65                                           | IP65                                          | IP65                                          | IP65                                          | TBD                                           |
| Military Standards                     | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275E | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810H<br>MIL-STD-1275D  | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810H<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D |
| Temp operating                         | -40°C to +65°C<br>(-40°F to 149 °F)           | -40°C to +65°C<br>(-40°F to 149 °F)           | -40°C to +55°C<br>(-40°F to 131 °F)           | -40°C to +55°C<br>(-40°F to 131 °F)           | -40°C to +65°C<br>(-40°F to 149 °F)           | -40°C to +55°C<br>(-40°F to 131 °F)           | -40°C to +55°C<br>(-40°F to 131 °F)           | -40°C to +55°C<br>(-40°F to 149°F)            | -40°C to +60°C<br>(-40°F to 140°F)             | -40°C to +65°C<br>(-40°F to 149°F)            | -40°C to +55°C<br>(-40°F to 131 °F)           | -40°C to +60°C<br>(-40°F to 140°F)            | TBD                                           |
| Temp storage                           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)            | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           | -40°C to +71°C<br>(-40°F to 160 °F)           |

\* RS232/RS422/RS485 software configurable

\*\* Same videostream out on both interfaces

Model Comparison CS2200 Series

MIL Connectors

|                                           |                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------|
|                                           | CS2271                                                                            |
| Product Picture                           |  |
| Connector type                            | MIL                                                                               |
|                                           |                                                                                   |
| Processor                                 | Intel Xeon-E 2276ME<br>6 cores (12 threads)                                       |
| RAM                                       | Up to 64GB DDR4 ECC                                                               |
| Graphics                                  | Intel HD Graphics 630                                                             |
| Storage                                   | 3x 2.5" SATA SSD (removable)                                                      |
| RAID                                      | RAID 0,1,5<br>(w. supercap cache)                                                 |
| Switch                                    | -                                                                                 |
| PTP<br>(IEEE 1588)                        | -                                                                                 |
| Dimensions<br>(WxDH)                      | 220 x 418 x 87.9<br>(8.7 x 15.5 x 3.5 inch)                                       |
| Weight                                    | TBD                                                                               |
| Power consumption<br>(excl. startup peak) | TBD                                                                               |
|                                           |                                                                                   |
| Diskbay                                   | TBD                                                                               |
| CAN                                       | -                                                                                 |
| Video                                     | 1x DVI<br>1x VGA                                                                  |
| Ethernet                                  | 4x 1000Base-T                                                                     |
| Serial                                    | 1xRS232 (full)<br>2x RS232 (Rx/Tx)                                                |
| USB                                       | 6x USB 2.0                                                                        |
| Service                                   | 1x MilDef Service                                                                 |
| Wireless                                  | -                                                                                 |
| GPS/GNSS                                  | -                                                                                 |
| Other interfaces                          | Audio, Remote power on                                                            |
| Fan                                       | Yes                                                                               |
| Power connector                           | ITT CA-B (ITS)                                                                    |
| Power                                     | 12-36V DC                                                                         |
|                                           |                                                                                   |
| IP rating                                 | IP65                                                                              |
| Military Standards                        | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D                                     |
| Temp operating                            | -40°C to +55°C<br>(-40°F to 131 °F)                                               |
| Temp storage                              | -40°C to +71 °C<br>(-40°F to 160 °F)                                              |

\* RS232/RS422/RS485 software configurable

\*\* Same videostream out on both interfaces

## Model Comparison CS2200 Series

with NVIDIA GPU



|                                        | CS2208                                                                            | CS2269                                                                            | CS2281                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Product Picture                        |  |  |  |
| Connector type                         | MIL                                                                               | MIL                                                                               | MIL                                                                                |
|                                        | <b>Technical Specification</b>                                                    |                                                                                   |                                                                                    |
| Processor                              | Intel Xeon-E 2276ML<br>6 cores (12 threads)                                       | Intel Xeon-E 2276ME<br>6 cores (12 threads)                                       | Intel Xeon-E 2276ML<br>6 cores (12 threads)                                        |
| RAM                                    | Up to 64GB DDR4 ECC                                                               | Up to 64GB DDR4 ECC                                                               | 16GB                                                                               |
| Graphics                               | NVIDIA RTX™ A1000                                                                 | NVIDIA RTX™ A1000                                                                 | NVIDIA A1000                                                                       |
| Storage                                | 1x M.2 NVME (removable)                                                           | 1x M.2 NVME (removable)                                                           | 1x M.2 SATA (internal)                                                             |
| Dimensions (WxDH)                      | 220 x 385 x 88 mm<br>(8.7 x 15.2 x 3.5 inch)                                      | 220 x 395 x 88 mm<br>(8.7 x 15.6 x 3.5 inch)                                      | 220 x 87.9 x 369 mm<br>(8.66 x 3.5 x 14.5 inch)                                    |
| Weight                                 | 6.3 kg (14 lbs)                                                                   | 6 kg (13.2 lbs)                                                                   | 7.3 kg (16.1 lbs)                                                                  |
| Power consumption (excl. startup peak) | TBD                                                                               | Idle: 35 W<br>Typical: 85 W<br>Max: 136W                                          | Max 150W                                                                           |
|                                        | <b>Interfaces</b>                                                                 |                                                                                   |                                                                                    |
| Diskbay                                | MDB201                                                                            | MDB201                                                                            | -                                                                                  |
| CAN                                    | -                                                                                 | -                                                                                 | 1x CAN2.0                                                                          |
| Video                                  | 2x DVI                                                                            | 2x DVI                                                                            | 2x DVI                                                                             |
| Ethernet                               | 4x 1000Base-T                                                                     | 1x 1000Base-SX                                                                    | 1x ETH 1000BASE-T<br>1x ETH 10GBASE-SR                                             |
| Serial                                 | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)                                             | 1x RS232* (Full)<br>2x RS232* (Rx/Tx)                                             | 2x RS232 (Full)                                                                    |
| USB                                    | 2x USB3.2 gen 1<br>7x USB2.0                                                      | 2x USB3.2 gen 1<br>7x USB2.0                                                      | 3x USB 3.2 Gen 1                                                                   |
| Service                                | 1x MilDef Service                                                                 | 1x MilDef Service                                                                 | 1x MilDef Service                                                                  |
| Wireless                               | -                                                                                 | -                                                                                 | -                                                                                  |
| GPS/GNSS                               | -                                                                                 | -                                                                                 | -                                                                                  |
| Other interfaces                       | Audio, Remote power on                                                            | Audio                                                                             | Audio, Status, Remote power on                                                     |
| Fan                                    | Yes                                                                               | Yes                                                                               | External Fan                                                                       |
| Power connector                        | 38999/20ZB98PN                                                                    | 38999/20ZB98PN                                                                    | D38999/20ZC4PN                                                                     |
| Power                                  | 16-32V DC                                                                         | 16-32V DC                                                                         | 12-36V DC                                                                          |
|                                        | <b>Environmental Specification</b>                                                |                                                                                   |                                                                                    |
| IP rating                              | IP65                                                                              | IP65                                                                              | IP65                                                                               |
| Military Standards                     | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D                                     | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D                                     | MIL-STD-461G<br>Def Stan 59-411<br>STANAG 2895<br>MIL-STD-810H                     |
| Temp operating                         | TBD                                                                               | TBD                                                                               | TBD                                                                                |
| Temp storage                           | -40°C to +71°C<br>(-40°F to 160 °F)                                               | -40°C to +71°C<br>(-40°F to 160 °F)                                               | TBD                                                                                |

\* RS232/RS422/RS485 software configurable

\*\* Same videostream out on both interfaces

# Model Comparison CS2200 Series

Network computer



|                                           | CS2291                                                                            | CS2292                                                                            |
|-------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Product Picture                           |  |  |
| Connector type                            | Industrial                                                                        | MIL                                                                               |
|                                           |                                                                                   |                                                                                   |
| Processor                                 | Intel Xeon-E 2276ML<br>6 cores (12 threads)                                       | Intel Xeon-E 2276ML<br>6 cores (12 threads)                                       |
| RAM                                       | Up to 64GB                                                                        | Up to 64GB                                                                        |
| Graphics                                  | Intel HD Graphics 630                                                             | Intel HD Graphics 630                                                             |
| Storage                                   | 1x M.2 NVME (internal)                                                            | 1x M.2 NVME (internal)                                                            |
| RAID                                      | -                                                                                 | -                                                                                 |
| Switch                                    | -                                                                                 | -                                                                                 |
| PTP<br>(IEEE 1588)                        | -                                                                                 | -                                                                                 |
| Dimensions<br>(WxDH)                      | 220 x 350 x 43.4 mm<br>(8.66 x 13.8 x 1.71 inch)                                  | 220 x 365 x 43.4 mm<br>(8.66 x 14.4 x 1.71 inch)                                  |
| Weight                                    | 4.1 kg (9 lbs)                                                                    | 3.9 kg (8.6 lbs)                                                                  |
| Power consumption<br>(excl. startup peak) | Idle: 25W<br>Typical: 77W<br>Max: 130W                                            | Idle: 40W<br>Typical: 80W<br>Max: 135W                                            |
|                                           |                                                                                   |                                                                                   |
| Diskbay                                   | Internal disk                                                                     | Internal disk                                                                     |
| CAN                                       | -                                                                                 | -                                                                                 |
| Video                                     | 1x VGA<br>1x HDMI                                                                 | 1x HDMI<br>1x VGA                                                                 |
| Ethernet                                  | 12x 1000Base-T<br>(2 with PoE)                                                    | 10x 1000Base-T                                                                    |
| Serial                                    | 1x RS232* (Rx/Tx)                                                                 | 1x RS232* (Rx/Tx)                                                                 |
| USB                                       | 2x USB3.2 Gen 1<br>2x USB2.0                                                      | 2x USB3.2 Gen 1<br>2x USB2.0                                                      |
| Service                                   | 1x MilDef Service                                                                 | 1x MilDef Service                                                                 |
| Wireless                                  | -                                                                                 | -                                                                                 |
| GPS/GNSS                                  | -                                                                                 | -                                                                                 |
| Other interfaces                          | -                                                                                 | -                                                                                 |
| Fan                                       | -                                                                                 | -                                                                                 |
| Power connector                           | ITT CA-B (ITS)                                                                    | ITT CA-B (ITS)                                                                    |
| Power                                     | 12-32V DC                                                                         | 16-32V DC                                                                         |
|                                           |                                                                                   |                                                                                   |
| IP rating                                 | IP65                                                                              |                                                                                   |
| Military Standards                        | MIL-STD-461F<br>MIL-STD-810G<br>MIL-STD-1275D                                     | MIL-STD-461F<br>MIL-STD-810H<br>MIL-STD-1275D                                     |
| Temp operating                            | -40°C to +55°C<br>(-40°F to 131°F)                                                | -40°C to +55°C<br>(-40°F to 131 °F)                                               |
| Temp storage                              | -40°C to +71°C<br>(-40°F to 160 °F)                                               | -40°C to +71°C<br>(-40°F to 160 °F)                                               |

\* RS232/RS422/RS485 software configurable

\*\* Same videostream out on both interfaces