



TruMicro Series 5000

Technical data



TruMicro 5050**TruMicro 5050 Femto Edition****TruMicro 5070****LASER PARAMETERS**

| | | | |
|--------------------------------|---|---|---|
| AVERAGE OUTPUT POWER | 50 W | 40 W | 100 W |
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 1030 nm | 1030 nm | 1030 nm |
| PULSE DURATION | < 10 ps | 875 fs ± 125 fs | < 10 ps |
| MAXIMUM PULSE ENERGY | 500 µJ | 200 µJ | 500 µJ |
| MINIMUM REPETITION RATE | 100 kHz | 200 kHz | 200 kHz |
| MAXIMUM REPETITION RATE | 1000 kHz | 1000 kHz | 1000 kHz |

STRUCTURAL DESIGN

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | | | |
|---------------------|---------------|---------------|---------------|
| PROTECTION CLASS | IP54 | IP54 | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C | 20 °C - 30 °C | 20 °C - 30 °C |

TruMicro 5070 Femto Edition**TruMicro 5080****TruMicro 5080 Femto Edition****LASER PARAMETERS**

| | | | |
|--------------------------------|---|---|---|
| AVERAGE OUTPUT POWER | 80 W | 150 W | 120 W |
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 1030 nm | 1030 nm | 1030 nm |
| PULSE DURATION | 875 fs ± 125 fs | < 10 ps | 900 fs (Tolerance -150...+100fs) |
| MAXIMUM PULSE ENERGY | 200 µJ | 250 µJ | 200 µJ |
| MINIMUM REPETITION RATE | 400 kHz | 600 kHz | 600 kHz |
| MAXIMUM REPETITION RATE | 1000 kHz | 1000 kHz | 1000 kHz |

STRUCTURAL DESIGN

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | | | |
|---------------------|---------------|---------------|---------------|
| PROTECTION CLASS | IP54 | IP54 | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C | 20 °C - 30 °C | 20 °C - 30 °C |

TruMicro 5250**TruMicro 5250 Femto Edition****TruMicro 5270****LASER PARAMETERS**

| | | | |
|----------------------|------|------|------|
| AVERAGE OUTPUT POWER | 30 W | 25 W | 60 W |
|----------------------|------|------|------|

TruMicro 5250**TruMicro 5250 Femto Edition****TruMicro 5270**

| | | | |
|--------------------------------|---|---|---|
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 515 nm | 515 nm | 515 nm |
| PULSE DURATION | < 10 ps | 800 fs ± 100 fs | < 10 ps |
| MAXIMUM PULSE ENERGY | 150 µJ | 125 µJ | 150 µJ |
| MINIMUM REPETITION RATE | 200 kHz | 200 kHz | 400 kHz |
| MAXIMUM REPETITION RATE | 1000 kHz | 1000 kHz | 1000 kHz |

STRUCTURAL DESIGN

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | | | |
|---------------------|---------------|---------------|---------------|
| PROTECTION CLASS | IP54 | IP54 | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C | 20 °C - 30 °C | 20 °C - 30 °C |

TruMicro 5270 Femto Edition**TruMicro 5280****TruMicro 5280 Femto Edition****LASER PARAMETERS**

| | | | |
|--------------------------------|---|---|---|
| AVERAGE OUTPUT POWER | 50 W | 90 W | 75 W |
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 515 nm | 515 nm | 515 nm |
| PULSE DURATION | 800 fs ± 100 fs | < 10 ps | 800 fs |
| MAXIMUM PULSE ENERGY | 125 µJ | 150 µJ | 125 µJ |
| MINIMUM REPETITION RATE | 400 kHz | 600 kHz | 600 kHz |
| MAXIMUM REPETITION RATE | 1000 kHz | 1000 kHz | 1000 kHz |

STRUCTURAL DESIGN

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | | | |
|---------------------|---------------|---------------|---------------|
| PROTECTION CLASS | IP54 | IP54 | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C | 20 °C - 30 °C | 20 °C - 30 °C |

TruMicro 5350**TruMicro 5370****TruMicro 5380****LASER PARAMETERS**

| | | | |
|--------------------------------|---|---|---|
| AVERAGE OUTPUT POWER | 15 W | 30 W | 45 W |
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 343 nm | 343 nm | 343 nm |
| PULSE DURATION | < 10 ps | < 10 ps | < 10 ps |

TruMicro 5350**TruMicro 5370****TruMicro 5380**

| | | | |
|-------------------------|----------|----------|----------|
| MAXIMUM PULSE ENERGY | 75 µJ | 75 µJ | 75 µJ |
| MINIMUM REPETITION RATE | 200 kHz | 400 kHz | 600 kHz |
| MAXIMUM REPETITION RATE | 1000 kHz | 1000 kHz | 1000 kHz |

STRUCTURAL DESIGN

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | | | |
|---------------------|---------------|---------------|---------------|
| PROTECTION CLASS | IP54 | IP54 | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C | 20 °C - 30 °C | 20 °C - 30 °C |

TruMicro 5380 Femto Edition**LASER PARAMETERS**

| | |
|--------------------------------|---|
| AVERAGE OUTPUT POWER | 36 W |
| BEAM QUALITY (M ²) | < 1.3 Standard, M ² < 1.2 optional |
| WAVELENGTH | 343 nm |
| PULSE DURATION | 800 fs |
| MAXIMUM PULSE ENERGY | 36 µJ |
| MINIMUM REPETITION RATE | - |
| MAXIMUM REPETITION RATE | 1000 kHz |

STRUCTURAL DESIGN

| | |
|---------------------------------------|---------------------------|
| DIMENSIONS OF LASER HEAD (W X H X D) | 680 mm x 289 mm x 1060 mm |
| DIMENSIONS OF SUPPLY UNIT (W X H X D) | 442 mm x 1192 mm x 910 mm |

INSTALLATION

| | |
|---------------------|---------------|
| PROTECTION CLASS | IP54 |
| AMBIENT TEMPERATURE | 20 °C - 30 °C |