# Specifications

| Parameter | NetEngine 8000 X8 | NetEngine 8000 X4 | NetEngine 8000 M14 | NetEngine 8000 M8 | NetEngine 8000 M6 | NetEngine 8000 M1A | NetEngine 8000 F1A |
|---|---|---|---|---|---|---|---|
| Switching Capacity | 83.78 Tbit/s | 41.89 Tbit/s | 4 Tbit/s | 2.4 Tbit/s | 320 Gbit/s | 352 Gbit/s | 2.4 Tbit/s |
| Forwarding Performance | 14,496 Mpps | 7248 Mpps | 906 Mpps | 453 Mpps | 72 Mpps | 72 Mpps | 453 Mpps |
| Max. Capacity of a Board | 4 Tbit/s | 4 Tbit/s | 200 Gbit/s | 200 Gbit/s | 50 Gbit/s | Fixed-configuration router does not support flexible cards | Fixed-configuration router does not support flexible cards |
| Capacity Density (G/U) | 2025 | 1633 | 400 | 400 | 80 | 176 | 1200 |
| IPU | 2, 1:1 | 2, 1:1 | 2, 1:1 | 2, 1:1 | 2, 1:1 | Fixed-configuration router does not support flexible cards | Fixed-configuration router does not support flexible cards |
| SFU | 8, 7+1 | 8, 7+1 | 2, 1:1 (integrated) | 2, 1:1 (integrated) | 2, 1:1 (integrated) | Fixed-configuration router does not support flexible cards | Fixed-configuration router does not support flexible cards |
| Processing Board/ Subcard | 8 | 4 | 14(DC) 10(AC) | 8(DC) 6(AC) | 6(DC) 4(AC) | Fixed-configuration router does not support flexible cards | Fixed-configuration router does not support flexible cards |
| Power Supply Module | Max 10, N+1 | Max 6, N+1 | 2, 1+1 (DC) 4, 2+2 (AC) | 2, 1+1 | 2, 1+1 | 2, 1+1 (DC) | 2, 1+1 |
| Fan Module | 12, 11+1 | 6, 5+1 | 4, 3+1 | 2, 1+1 | 2, 1+1 | 3 (integrated) | 4, 3+1 |
| Dimensions (H x W x D) | 702.3 x 442 x 861.4 mm (15.8 U) | 435.6 x 442 x 861.4 mm (9.8 U) | 222 x 442 x 220 mm (5 U) | 132.6 x 442 x 220 mm (3 U) | 88.9 x 442 x 220 mm (2 U) | 44.45 x 442 x 220 mm (1 U) | 43.6 x 442 x 420 mm (1 U) |
| Typical Power Consumption | 11,017 W | 5913 W | 1270 W | 485 W | 220 W | 75 W | 350 W |
| Weight (With Full Configuration) | 296.6 kg | 186.2 kg | 27.4 kg | 16.5 kg | 3.52 kg | 3.4 kg | 7.25 kg |