

# Intel Arc B580 12GB

Battlemage

PCIe

2024

5nm

## OVERVIEW

|                  |                     |                              |              |
|------------------|---------------------|------------------------------|--------------|
| —<br>FP32 TFLOPS | 12 GB<br>VRAM GDDR6 | 456 GB/s<br>Memory Bandwidth | 190 W<br>TDP |
|------------------|---------------------|------------------------------|--------------|

## PERFORMANCE METRICS

| Precision | Peak (dense) | Bits | Type     |
|-----------|--------------|------|----------|
| FP64      | —            | —    | Standard |
| FP32      | —            | —    | Standard |
| TF32      | —            | —    | Standard |
| BF16      | —            | —    | Standard |
| FP16      | —            | —    | Standard |
| FP8       | —            | —    | Standard |
| FP6       | —            | —    | Standard |
| FP4       | —            | —    | Standard |
| INT8      | 233.0        | 8    | Standard |

## MEMORY SPECIFICATIONS

|                 |          |
|-----------------|----------|
| Capacity        | 12 GB    |
| Type            | GDDR6    |
| Bandwidth       | 456 GB/s |
| Interface Width | 192-bit  |

## POWER & EFFICIENCY

|                 |       |
|-----------------|-------|
| TDP             | 190 W |
| Max Power       | 190 W |
| FP32 Efficiency | —     |
| FP16 Efficiency | —     |

## HARDWARE DETAILS

|                   |                          |                   |
|-------------------|--------------------------|-------------------|
| Vendor: Intel     | Architecture: Battlemage | Process Node: 5nm |
| Form Factor: PCIe | Launch Year: 2024        | Variant: 12GB     |

## COMPUTE ENGINE

|              |                             |                       |
|--------------|-----------------------------|-----------------------|
| Xe Cores: 20 | Tensor Cores: 160 (Xe2 XMN) | Boost Clock: 2.67 GHz |
|--------------|-----------------------------|-----------------------|

## INTERCONNECT

PCIe: 4.0 x8

ENTERPRISE FEATURES

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Sparsity: **No**

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