

Detailed Pricing

Self-serve storefront pricing on Circa

26 August 2026 · REEL LCI Database v1.0 · 18 component categories, variants included

How pricing works

\$0.95 per credit

Purchases are per datapoint. You buy the datapoints you need from a dataset rather than the whole dataset, and the credit cost of a datapoint depends on the class of datapoint and on the tier of the dataset it comes from. Purchased access is licensed per user and per year.

DATAPOINT	TIER 1	TIER 2	TIER 3	TIER 4
Input/output quantities	45	20	10	4
Each LCIA method	5	2	1	1
Properties	1	1	1	1

Complete products and components are 1 credit per datapoint. They carry no tier, and are shown in the tables below as type "Complete product" with a tier of "-".

Supported variants are included together with their base dataset. A wafer dataset includes its available locations and its operating or yield scenarios, and a PCB dataset includes its available surface finishes, all for the price of the one dataset. Different physical configurations, such as 5 nm versus 7 nm or a 16-layer versus a 40-layer PCB, remain separate datasets.

The rates here cover one dataset at a time. Some datasets use other REEL datasets as inputs, the way a power supply uses its ICs, capacitors and PCB. Those referenced datasets are priced separately and are not included in the price of the dataset that references them, so building the full chain of inputs behind a dataset means purchasing each dataset in that chain.

Catalogue at a glance

18 categories

CATEGORY	DATASETS	INCL. VARIANTS	CATEGORY	DATASETS	INCL. VARIANTS
Semiconductor Wafers	14	49	Specialty Semiconductors	16	16
Memory Wafers	10	39	Optoelectronics	12	12
Specialty Wafers	12	20	Cables	10	10
Logic ICs	42	42	Connectors	10	10
Memory Components	25	31	Electromechanical	4	4
IC Packaging	46	46	Thermal Management	5	5
IC Substrates	2	2	System Components	30	30
PCBs	19	114	Infrastructure	14	14
Passive Components	58	58	Upstream Materials & Chemicals	20	20
All categories				349	522

Reading the tables

Each row is one dataset, the unit you buy. Where a dataset comes in several variants, they are named under the dataset and are covered by the same purchase.

Incl. variants counts everything the purchase covers: the base configuration and each included variant.

Type is either a primary dataset, which is tiered, or a complete product or component, which is priced at a flat 1 credit per datapoint.

Credits per quantity / LCIA / property gives the three per-datapoint rates in order: one input or output quantity, one LCIA method, one property.

Semiconductor Wafers

14 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
10nm FinFET wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
130nm Planar wafer, 300mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	3	10 / 1 / 1
14nm FinFET wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
180nm Planar wafer, 200mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	3	10 / 1 / 1
20nm Planar HKMG wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
22nm Planar HKMG wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
28nm Planar HKMG wafer, 300mm Includes 4 variants: Base, Baseline, Best Practice, Moderate	4	Primary	3	10 / 1 / 1
3nm FinFET/GAA wafer, 300mm Includes 6 variants: Base, Arizona Baseline, Arizona Best Practice, Arizona Moderate, Taiwan Baseline, Taiwan Moderate	6	Primary	1	45 / 5 / 1
40nm Planar wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	3	10 / 1 / 1
5nm FinFET wafer, 300mm Includes 6 variants: Base, Arizona Baseline, Arizona Best Practice, Arizona Moderate, Taiwan Baseline, Taiwan Moderate	6	Primary	1	45 / 5 / 1
65nm Planar wafer, 300mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	3	10 / 1 / 1
7nm FinFET wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	1	45 / 5 / 1
90nm Planar wafer, 300mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	3	10 / 1 / 1
BCD 180nm wafer, 200mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	3	10 / 1 / 1

Memory Wafers

10 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
1-alpha DRAM wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
1-beta DRAM wafer, 300mm Includes 3 variants: Base, Baseline, Moderate	3	Primary	1	45 / 5 / 1
1-gamma DRAM wafer, 300mm Includes 3 variants: Base, Baseline, Moderate	3	Primary	1	45 / 5 / 1
10nm-class DRAM wafer, 300mm Includes 3 variants: Base, Baseline, Best Practice	3	Primary	2	20 / 2 / 1
3D NAND 128L wafer, 300mm Includes 3 variants: Base, Baseline conventional etch, Best Practice conventional etch	3	Primary	2	20 / 2 / 1
3D NAND 176L wafer, 300mm Includes 3 variants: Base, Baseline conventional etch, Best Practice conventional etch	3	Primary	2	20 / 2 / 1
3D NAND 232L wafer, 300mm Includes 6 variants: Base, Baseline conventional etch, Baseline cryogenic etch, Best Practice cryogenic etch, Moderate conventional etch, Moderate cryogenic etch	6	Primary	1	45 / 5 / 1
3D NAND 288L wafer, 300mm Includes 6 variants: Base, Baseline conventional etch, Baseline cryogenic etch, Best Practice cryogenic etch, Moderate conventional etch, Moderate cryogenic etch	6	Primary	1	45 / 5 / 1
3D NAND 321L wafer, 300mm Includes 6 variants: Base, Baseline conventional etch, Baseline cryogenic etch, Best Practice cryogenic etch, Moderate conventional etch, Moderate cryogenic etch	6	Primary	1	45 / 5 / 1
GDDR7 DRAM (1β/1b) wafer, 300mm Includes 3 variants: Base, Baseline, Moderate	3	Primary	1	45 / 5 / 1

Specialty Wafers

12 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
90nm Silicon Photonics wafer, 200mm Includes 3 variants: Base, Best Practice, Moderate	3	Primary	1	45 / 5 / 1
CIS BSI 300mm wafer, 300mm	1	Primary	2	20 / 2 / 1
Discrete Silicon 200mm wafer, 200mm	1	Primary	3	10 / 1 / 1
GaAs VCSEL wafer, 100mm Includes 2 variants: Base, Japan	2	Primary	1	45 / 5 / 1
GaN-on-Si 200mm wafer, 200mm Includes 2 variants: Base, United States	2	Primary	1	45 / 5 / 1
InGaAs Photodiode wafer, 100mm Includes 2 variants: Base, Japan	2	Primary	1	45 / 5 / 1
InP Laser Wafer 1550nm wafer, 100mm Includes 2 variants: Base, Japan	2	Primary	1	45 / 5 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
InP Laser wafer, 100mm Includes 2 variants: Base, Japan	2	Primary	1	45 / 5 / 1
LED GaN 100mm wafer, 100mm	1	Primary	2	20 / 2 / 1
MEMS Inertial 200mm wafer, 200mm	1	Primary	2	20 / 2 / 1
Power Discrete Silicon 200mm wafer, 200mm	1	Primary	2	20 / 2 / 1
SiC 150mm wafer, 150mm Includes 2 variants: Base, United States	2	Primary	1	45 / 5 / 1

Logic ICs

42 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
5G Modem, FOWLP, 7nm	1	Complete product	-	1 / 1 / 1
ADC/DAC, QFN 6x6, 65nm	1	Complete product	-	1 / 1 / 1
Analog IC, SOP-8, 180nm	1	Complete product	-	1 / 1 / 1
Audio Codec, QFN 4x4, 65nm	1	Complete product	-	1 / 1 / 1
CAN Transceiver, SOIC-8, 180nm	1	Complete product	-	1 / 1 / 1
Clock Generator, QFN, 65nm	1	Complete product	-	1 / 1 / 1
DDR5 CKD, QFN, 28nm	1	Complete product	-	1 / 1 / 1
DDR5 MDB, QFN, 28nm	1	Complete product	-	1 / 1 / 1
DDR5 MRCD, QFN, 28nm	1	Complete product	-	1 / 1 / 1
Display Driver, QFN 8x8, 40nm	1	Complete product	-	1 / 1 / 1
ESD Protection, DFN, 65nm	1	Complete product	-	1 / 1 / 1
Ethernet PHY, QFN 6x6, 28nm	1	Complete product	-	1 / 1 / 1
Ethernet Switch, FC-BGA 32x32, 28nm	1	Complete product	-	1 / 1 / 1
FPGA, FC-BGA 35x35, 28nm	1	Complete product	-	1 / 1 / 1
Gate Driver, SOIC-8, 180nm	1	Complete product	-	1 / 1 / 1
LDO Regulator, DFN, 180nm	1	Complete product	-	1 / 1 / 1
LED Driver, TSSOP-16, 130nm	1	Complete product	-	1 / 1 / 1
Logic Buffer, TSSOP, 130nm	1	Complete product	-	1 / 1 / 1
Logic IC, CoWoS 2.5D, 3nm	1	Complete product	-	1 / 1 / 1
Logic IC, FC-BGA, 14nm	1	Complete product	-	1 / 1 / 1
Logic IC, FC-BGA, 5nm	1	Complete product	-	1 / 1 / 1
Logic IC, FC-BGA, 7nm	1	Complete product	-	1 / 1 / 1
Logic IC, FOWLP, 5nm	1	Complete product	-	1 / 1 / 1
Logic IC, FOWLP, 7nm	1	Complete product	-	1 / 1 / 1
MCU, LQFP-64, 28nm	1	Complete product	-	1 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
MCU, LQFP-64, 40nm	1	Complete product	-	1 / 1 / 1
MCU, LQFP-64, 65nm	1	Complete product	-	1 / 1 / 1
MCU, QFN, 28nm	1	Complete product	-	1 / 1 / 1
Motor Driver, QFN 6x6, 180nm	1	Complete product	-	1 / 1 / 1
NOR Flash 128Mb, SOIC-8, 65nm	1	Complete product	-	1 / 1 / 1
NPU, FC-BGA 27x27, 14nm	1	Complete product	-	1 / 1 / 1
Op-Amp, SOIC-8, 180nm	1	Complete product	-	1 / 1 / 1
PMIC, QFN 4x4, 180nm	1	Complete product	-	1 / 1 / 1
Power MOSFET, TO-220, 180nm	1	Complete product	-	1 / 1 / 1
RF LNA, QFN 3x3, 180nm	1	Complete product	-	1 / 1 / 1
RS-485 Transceiver, SOIC-8, 130nm	1	Complete product	-	1 / 1 / 1
RTC, SOIC-8, 130nm	1	Complete product	-	1 / 1 / 1
Temperature Sensor, DFN, 180nm	1	Complete product	-	1 / 1 / 1
UFS 5.0 Controller, FBGA, 5nm	1	Complete product	-	1 / 1 / 1
USB Hub, QFN 7x7, 90nm	1	Complete product	-	1 / 1 / 1
Voltage Reference, DFN, 180nm	1	Complete product	-	1 / 1 / 1
WiFi/BT SoC, QFN 5x5, 28nm	1	Complete product	-	1 / 1 / 1

Memory Components

25 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
DRAM IC 16Gb, FBGA, 1γ	1	Complete product	-	1 / 1 / 1
DRAM IC 8Gb, FBGA, 1α	1	Complete product	-	1 / 1 / 1
DRAM IC 8Gb, FBGA, 1β	1	Complete product	-	1 / 1 / 1
GDDR7 IC 16Gb, FBGA, 1β	1	Complete product	-	1 / 1 / 1
HBF Gen 1, 512 GiB, 16-Hi Stack	1	Complete product	-	1 / 1 / 1
HBM3 12-Hi	1	Complete product	-	1 / 1 / 1
HBM3 8-Hi	1	Complete product	-	1 / 1 / 1
HBM3E 12-Hi	1	Complete product	-	1 / 1 / 1
HBM3E 8-Hi	1	Complete product	-	1 / 1 / 1
HBM4 24GB, 8-Hi Stack Includes 3 variants: Base, Mature, Ramp	3	Complete product	-	1 / 1 / 1
HBM4 48GB, 12-Hi Stack Includes 3 variants: Base, Mature, Ramp	3	Complete product	-	1 / 1 / 1
HBM4 64GB, 16-Hi Stack Includes 3 variants: Base, Mature, Ramp	3	Complete product	-	1 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
LPDDR5 DRAM IC 8Gb, FBGA, 1α	1	Complete product	-	1 / 1 / 1
LPDDR5 DRAM IC 8Gb, PoP, 1α	1	Complete product	-	1 / 1 / 1
LPDDR5 DRAM IC 8Gb, WLCSP, 1α	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 16GB – 8DP WB-FBGA (8×16Gb, 1β)	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 16Gb, FBGA, 1β	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 16Gb, PoP, 1β	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 16Gb, WLCSP, 1β	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 32GB – 16DP WB-FBGA (16×16Gb, 1β)	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 4GB – DDP WB-FBGA (2×16Gb, 1β)	1	Complete product	-	1 / 1 / 1
LPDDR5X DRAM IC 8GB – QDP WB-FBGA (4×16Gb, 1β)	1	Complete product	-	1 / 1 / 1
NAND Flash IC 1Tb, FBGA, 232L	1	Complete product	-	1 / 1 / 1
NAND Flash IC 1Tb, FBGA, 288L	1	Complete product	-	1 / 1 / 1
NAND Flash IC 512Gb, FBGA, 176L	1	Complete product	-	1 / 1 / 1

IC Packaging

46 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Chip-on-Wafer-on-Substrate (Silicon) package	1	Primary	1	45 / 5 / 1
DIP package	1	Primary	4	4 / 1 / 1
Dual Flat No-lead package	1	Primary	3	10 / 1 / 1
Embedded Multi-die Interconnect Bridge package	1	Primary	1	45 / 5 / 1
Embedded Wafer Level Ball Grid Array package	1	Primary	2	20 / 2 / 1
Fan-Out Panel-Level package (18x18)	1	Primary	1	45 / 5 / 1
Fan-Out Panel-Level package (30x30)	1	Primary	1	45 / 5 / 1
Fan-Out Panel-Level package (8x8)	1	Primary	1	45 / 5 / 1
Fan-Out Wafer Level package	1	Primary	2	20 / 2 / 1
Flip-Chip Ball Grid Array 27x27mm package	1	Primary	2	20 / 2 / 1
Flip-Chip Ball Grid Array 32x32mm package	1	Primary	2	20 / 2 / 1
Flip-Chip Ball Grid Array 35x35mm package	1	Primary	2	20 / 2 / 1
Flip-Chip Ball Grid Array 50x50mm package	1	Primary	2	20 / 2 / 1
Flip-Chip Ball Grid Array package	1	Primary	2	20 / 2 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
HBM3 TSV Stacking and Assembly package (12-Hi)	1	Primary	1	45 / 5 / 1
HBM3 TSV Stacking and Assembly package (16-Hi)	1	Primary	1	45 / 5 / 1
HBM3 TSV Stacking and Assembly package (Base)	1	Primary	1	45 / 5 / 1
HBM4 TSV Stacking and Assembly package (12-Hi)	1	Primary	1	45 / 5 / 1
HBM4 TSV Stacking and Assembly package (16-Hi)	1	Primary	1	45 / 5 / 1
HBM4 TSV Stacking and Assembly package (Base)	1	Primary	1	45 / 5 / 1
Intel Foveros 3D Stacking package	1	Primary	1	45 / 5 / 1
Low-profile Quad Flat Package 64-pin package	1	Primary	3	10 / 1 / 1
Package-on-Package	1	Primary	2	20 / 2 / 1
PLCC package	1	Primary	3	10 / 1 / 1
Power Quad Flat No-lead with Exposed Thermal Pad package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 2x2mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 3x3mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 4x4mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 6x6mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 7x7mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead 8x8mm package	1	Primary	3	10 / 1 / 1
Quad Flat No-lead package	1	Primary	3	10 / 1 / 1
Shrink Small Outline package	1	Primary	3	10 / 1 / 1
Small Outline Integrated Circuit package	1	Primary	3	10 / 1 / 1
Small Outline Package 8-lead package	1	Primary	4	4 / 1 / 1
Thin Quad Flat package	1	Primary	3	10 / 1 / 1
Thin Shrink Small Outline package	1	Primary	3	10 / 1 / 1
Thin Small Outline package	1	Primary	3	10 / 1 / 1
Transistor Outline 220 package	1	Primary	4	4 / 1 / 1
Wafer-Level Chip-Scale package	1	Primary	3	10 / 1 / 1
Wafer-Level Chip-Scale Package - 3-Layer RDL package	1	Primary	2	20 / 2 / 1
Wafer-Level Chip-Scale Package 3x3mm package	1	Primary	3	10 / 1 / 1
Wafer-Level Chip-Scale Package 5x5mm package	1	Primary	3	10 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Wafer-Level Package with Damascene RDL package	1	Primary	2	20 / 2 / 1
Wire Bond Fine-pitch Ball Grid Array package	1	Primary	3	10 / 1 / 1
Wire Bond Fine-pitch BGA with Vertically Stacked Dies package	1	Primary	2	20 / 2 / 1

IC Substrates

2 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
ABF Substrate	1	Primary	2	20 / 2 / 1
BT Substrate	1	Primary	2	20 / 2 / 1

PCBs

19 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
10-Layer HDI PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
10-Layer SLP PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	1	45 / 5 / 1
12-Layer Server PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1
14-Layer Server PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1
16-Layer Server PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1
18-Layer Networking PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
2-Layer Flex PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1
20-Layer Networking PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
24-Layer Backplane PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
28-Layer Backplane PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
32-Layer Backplane PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	1	45 / 5 / 1
4-Layer Automotive ECU PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1
4-Layer FR4 PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	4	4 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
40-Layer Backplane PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	1	45 / 5 / 1
6-Layer FR4 PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	4	4 / 1 / 1
6-Layer RF Hybrid PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	1	45 / 5 / 1
6-Layer Rigid-Flex PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	1	45 / 5 / 1
8-Layer HDI PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	2	20 / 2 / 1
8-Layer Memory DIMM PCB Includes 6 variants: ENEPIG, ENIG, HASL, ImAg, ImSn, OSP	6	Primary	3	10 / 1 / 1

Passive Components

58 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Aluminum Electrolytic	1	Primary	4	4 / 1 / 1
Chip Inductor	1	Primary	4	4 / 1 / 1
Chip Inductor 0201	1	Primary	4	4 / 1 / 1
Chip Inductor 0603	1	Primary	4	4 / 1 / 1
Chip Inductor 0805	1	Primary	4	4 / 1 / 1
Chip Resistor	1	Primary	4	4 / 1 / 1
Chip Resistor 0201	1	Primary	4	4 / 1 / 1
Chip Resistor 0402	1	Primary	4	4 / 1 / 1
Chip Resistor 0805	1	Primary	4	4 / 1 / 1
Chip Resistor 1206	1	Primary	4	4 / 1 / 1
Common Mode Choke	1	Primary	4	4 / 1 / 1
Current Sense Resistor	1	Primary	4	4 / 1 / 1
Ferrite Bead	1	Primary	4	4 / 1 / 1
Ferrite Bead 0402	1	Primary	4	4 / 1 / 1
Ferrite Bead 0805	1	Primary	4	4 / 1 / 1
Film Capacitor X2	1	Primary	4	4 / 1 / 1
Film Capacitor Y2	1	Primary	4	4 / 1 / 1
MLCC C0G	1	Primary	4	4 / 1 / 1
MLCC X5R	1	Primary	4	4 / 1 / 1
MLCC X7R	1	Primary	4	4 / 1 / 1
MLCC X7R 0201	1	Primary	4	4 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
MLCC X7R 0603	1	Primary	4	4 / 1 / 1
MLCC X7R 0805	1	Primary	4	4 / 1 / 1
MLCC X7R 1206	1	Primary	4	4 / 1 / 1
MOV Varistor SMD	1	Primary	4	4 / 1 / 1
NTC Thermistor SMD	1	Primary	4	4 / 1 / 1
PFC Boost Inductor	1	Primary	4	4 / 1 / 1
Planar Transformer	1	Primary	4	4 / 1 / 1
PTC Thermistor SMD	1	Primary	4	4 / 1 / 1
Resistor MELF	1	Primary	4	4 / 1 / 1
Resistor THT Axial	1	Primary	4	4 / 1 / 1
Ring Core Inductor	1	Primary	4	4 / 1 / 1
Tantalum Capacitor	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 10000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 10000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 10000 C	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 18000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 18000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 25000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 25000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 5000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 5000 C	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 5000 D	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 50000 Plus A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor MnO2 50000 Plus R	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 10000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 10000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 10000 C	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 18000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 18000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 25000 A	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 25000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 5000 B	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 5000 C	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 5000 D	1	Primary	4	4 / 1 / 1
Tantalum Capacitor Polymer 50000 Plus A	1	Primary	4	4 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Tantalum Capacitor Polymer 50000 Plus R	1	Primary	4	4 / 1 / 1
Thermistor THT Disk	1	Primary	4	4 / 1 / 1

Specialty Semiconductors

16 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
CIS Image Sensor	1	Complete product	-	1 / 1 / 1
Diode MELF	1	Primary	4	4 / 1 / 1
Diode SOD	1	Primary	4	4 / 1 / 1
Discrete Rectifier GPP	1	Primary	4	4 / 1 / 1
Discrete Schottky Diode	1	Primary	4	4 / 1 / 1
Discrete TVS Diode	1	Primary	4	4 / 1 / 1
Discrete Zener Diode	1	Primary	4	4 / 1 / 1
GaN Power HEMT	1	Primary	1	45 / 5 / 1
MEMS Accelerometer	1	Primary	2	20 / 2 / 1
SiC Power MOSFET	1	Primary	1	45 / 5 / 1
SiC Schottky Diode	1	Primary	1	45 / 5 / 1
Transistor D2PAK	1	Primary	4	4 / 1 / 1
Transistor DPAK	1	Primary	4	4 / 1 / 1
Transistor SOT-223	1	Primary	4	4 / 1 / 1
Transistor SOT-23	1	Primary	4	4 / 1 / 1
Transistor TO-92	1	Primary	4	4 / 1 / 1

Optoelectronics

12 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
LED SMD 0603	1	Primary	4	4 / 1 / 1
LED SMD 2835	1	Primary	3	10 / 1 / 1
LED SMD 3528	1	Primary	3	10 / 1 / 1
LED SMD 3535	1	Primary	3	10 / 1 / 1
LED SMD High Efficiency	1	Primary	2	20 / 2 / 1
LED THT 5mm	1	Primary	4	4 / 1 / 1
Optical Fiber Singlemode	1	Primary	3	10 / 1 / 1
Optical Transceiver QSFP DD 400G	1	Complete product	-	1 / 1 / 1
Optical Transceiver QSFP DD 400G FR4	1	Complete product	-	1 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Optical Transceiver QSFP DD 400G LR4	1	Complete product	-	1 / 1 / 1
Optical Transceiver QSFP DD 400G Zr	1	Complete product	-	1 / 1 / 1
Optical Transceiver QSFP28 100G SR4	1	Complete product	-	1 / 1 / 1

Cables

10 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
ATX Power Harness	1	Primary	4	4 / 1 / 1
DAC 100G QSFP28	1	Primary	3	10 / 1 / 1
DAC 25G SFP28	1	Primary	3	10 / 1 / 1
Ethernet Cat 6A Patch	1	Primary	4	4 / 1 / 1
Fiber OM4 LC Duplex	1	Primary	3	10 / 1 / 1
Fiber OS2 LC Duplex	1	Primary	3	10 / 1 / 1
Power Cord C13	1	Primary	4	4 / 1 / 1
Power Cord C19	1	Primary	4	4 / 1 / 1
SATA Data Cable	1	Primary	4	4 / 1 / 1
USB4 Cable Passive	1	Primary	3	10 / 1 / 1

Connectors

10 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
ATX Power Connector	1	Primary	4	4 / 1 / 1
DDR5 DIMM Socket	1	Primary	3	10 / 1 / 1
Fiber LC Connector	1	Primary	3	10 / 1 / 1
Fiber Mpo Connector	1	Primary	3	10 / 1 / 1
FPC FFC Connector	1	Primary	3	10 / 1 / 1
Mezzanine High Speed	1	Primary	3	10 / 1 / 1
PCIe Card Edge	1	Primary	3	10 / 1 / 1
RJ45 MagJack	1	Primary	4	4 / 1 / 1
SATA SAS Connector	1	Primary	4	4 / 1 / 1
USB4 Receptacle	1	Primary	3	10 / 1 / 1

Electromechanical

4 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Axial Fan	1	Primary	4	4 / 1 / 1
BLDC Motor Standalone	1	Primary	4	4 / 1 / 1
Blower Fan	1	Primary	4	4 / 1 / 1
Vibration Motor	1	Primary	4	4 / 1 / 1

Thermal Management

5 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Heat Pipe Copper	1	Primary	4	4 / 1 / 1
Heatsink Extruded Aluminum	1	Primary	4	4 / 1 / 1
Thermal Grease Silicone	1	Primary	4	4 / 1 / 1
Thermal Pad Silicone	1	Primary	4	4 / 1 / 1
Vapor Chamber Copper	1	Primary	4	4 / 1 / 1

System Components

30 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
Blower Fan Array 4X	1	Complete product	-	1 / 1 / 1
Chassis Fan Array 6X40Mm	1	Complete product	-	1 / 1 / 1
DDR5 128GB MRDIMM	1	Complete product	-	1 / 1 / 1
DDR5 16GB DIMM	1	Complete product	-	1 / 1 / 1
DDR5 16GB SODIMM	1	Complete product	-	1 / 1 / 1
DDR5 32GB CAMM2	1	Complete product	-	1 / 1 / 1
DDR5 32GB CSODIMM	1	Complete product	-	1 / 1 / 1
DDR5 32GB CUDIMM	1	Complete product	-	1 / 1 / 1
Enterprise HDD 3.5"	1	Complete product	-	1 / 1 / 1
eUFS 5.0 256GB	1	Complete product	-	1 / 1 / 1
Flagship SoC PoP Assembly 16GB – 7nm AP + LPDDR5 (smartphone/tablet)	1	Complete product	-	1 / 1 / 1
Flagship SoC PoP Assembly 16GB – 7nm AP + LPDDR5X (smartphone/tablet)	1	Complete product	-	1 / 1 / 1
Flagship SoC PoP Assembly 8GB – 7nm AP + LPDDR5 (smartphone/tablet)	1	Complete product	-	1 / 1 / 1
Flagship SoC PoP Assembly 8GB – 7nm AP + LPDDR5X (smartphone/tablet)	1	Complete product	-	1 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
LPDDR5 16GB Server/Edge Memory Module – Discrete LPCAMM2-style (no SoC)	1	Complete product	-	1 / 1 / 1
LPDDR5X 16GB Server/Edge Memory Module – Discrete LPCAMM2-style (no SoC)	1	Complete product	-	1 / 1 / 1
NVMe M.2 SSD 1 TB	1	Complete product	-	1 / 1 / 1
NVMe M.2 SSD 128GB	1	Complete product	-	1 / 1 / 1
PSU ATX 650W	1	Complete product	-	1 / 1 / 1
PSU DC Buck 48V 500W	1	Complete product	-	1 / 1 / 1
PSU DC POE 30W	1	Complete product	-	1 / 1 / 1
PSU DC VRM Memory	1	Complete product	-	1 / 1 / 1
PSU Laptop Adapter 100W	1	Complete product	-	1 / 1 / 1
PSU Server 2000W	1	Complete product	-	1 / 1 / 1
PSU USB Charger GaN 65W	1	Complete product	-	1 / 1 / 1
PSU VRM CPU 300A	1	Complete product	-	1 / 1 / 1
SIC Power Module	1	Complete product	-	1 / 1 / 1
SOCAMM 128GB LPDDR5X Memory Module (4×32GB 16DP stacks, NVIDIA Grace/GB300)	1	Complete product	-	1 / 1 / 1
SOCAMM2 192GB LPDDR5X Memory Module (6×32GB 16DP stacks, generic vendor)	1	Complete product	-	1 / 1 / 1
SOCAMM2 256GB LPDDR5X Memory Module (8×32GB 16DP stacks, generic vendor)	1	Complete product	-	1 / 1 / 1

Infrastructure

14 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
MGX Board Pan	1	Primary	4	4 / 1 / 1
MGX Busbar 1400A	1	Complete product	-	1 / 1 / 1
MGX Compute Tray	1	Primary	4	4 / 1 / 1
MGX DC SCM	1	Complete product	-	1 / 1 / 1
MGX Fan Wall 12X80Mm	1	Complete product	-	1 / 1 / 1
MGX IO Bay Modules	1	Primary	4	4 / 1 / 1
MGX Manifold Assembly	1	Complete product	-	1 / 1 / 1
MGX Rack Complete	1	Complete product	-	1 / 1 / 1
MGX Rack Frame	1	Primary	4	4 / 1 / 1
MGX Rack Infrastructure	1	Complete product	-	1 / 1 / 1
MGX Slide Rail	1	Primary	4	4 / 1 / 1
MGX Tray Assembly	1	Complete product	-	1 / 1 / 1

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
PDU Rack 16-Outlet	1	Complete product	-	1 / 1 / 1
UQD Assembly	1	Complete product	-	1 / 1 / 1

Upstream Materials & Chemicals

20 datasets

DATASET	INCL. VARIANTS	TYPE	TIER	CREDITS PER QUANTITY / LCIA / PROPERTY
ArF Photoresist (193nm)	1	Primary	2	20 / 2 / 1
Carbon tetrafluoride (CF4)	1	Primary	3	10 / 1 / 1
Copper CMP Slurry	1	Primary	2	20 / 2 / 1
Fluorine (F2)	1	Primary	3	10 / 1 / 1
Germane (GeH4)	1	Primary	3	10 / 1 / 1
Hexafluoro-1,3-butadiene (C4F6)	1	Primary	2	20 / 2 / 1
Nitrogen trifluoride (NF3)	1	Primary	3	10 / 1 / 1
Octafluorocyclobutane (c-C4F8)	1	Primary	2	20 / 2 / 1
Oxide CMP Slurry	1	Primary	2	20 / 2 / 1
Polyimide (PMDA/ODA) ((C22H10N2O5)n)	1	Primary	3	10 / 1 / 1
Sulfur hexafluoride (SF6)	1	Primary	3	10 / 1 / 1
Tetramethylammonium hydroxide (N(CH3)4OH)	1	Primary	3	10 / 1 / 1
TMAH Developer (2.38% solution) (N(CH3)4OH (aq))	1	Primary	3	10 / 1 / 1
Trimethylaluminum (Al(CH3)3)	1	Primary	3	10 / 1 / 1
Trimethylgallium (Ga(CH3)3)	1	Primary	3	10 / 1 / 1
Trimethylindium (In(CH3)3)	1	Primary	3	10 / 1 / 1
Tungsten CMP Slurry	1	Primary	2	20 / 2 / 1
Tungsten hexafluoride (WF6)	1	Primary	2	20 / 2 / 1
Ultrapure Water (UPW) Production	1	Primary	4	4 / 1 / 1
Water Supply (Municipal)	1	Primary	4	4 / 1 / 1

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