星算 STAR COUNTER

MIAOLI PHASE 1 · SPEC SHEET

Power plant to rack. Compute, delivered whole.

Star Counter builds and operates high-density, liquid-cooled AI data centers in Taiwan. Miaoli Phase 1 combines on-site gas generation, 45 °C warm-water liquid cooling and prefabricated modules, designed for whole-rack NVIDIA Vera Rubin NVL72 deployments at 188–227 kW per rack.

5 MW	24 racks	1,728	1.11	2028 Q1
Phase 1 IT load	VR NVL72	GPUs	Annual PUE, design	Target go-live

Engagements

COLOCATION

Liquid-cooled colocation

You buy the racks; we provide power, liquid loops, space and 24 × 7 operations. Billed on contracted power, reference from US$200 / kW • month, 5 + 5 yr.

BARE-METAL RACK

Bare-metal rack lease

Star Counter owns and operates whole VR NVL72 racks and delivers them as bare metal. Quoted by racks, term and prepayment.

INFERENCE · PLANNED

Inference API

Token-metered inference on open models with data kept in Taiwan. Pre-registration open.

Campuses

Miaoli

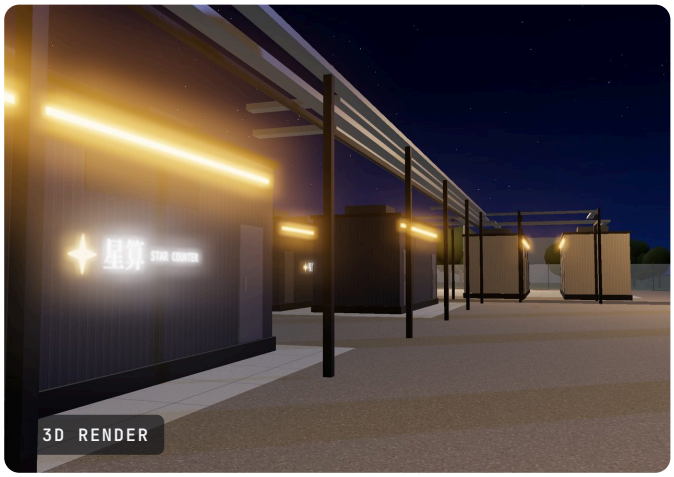
`50 MW · on-site gas gensets in parallel · dual 24 kV feeds`

Phase 1 (5 MW) design complete, tendering in preparation

Kaohsiung

`50 MW · Taipower grid`

Planning; reuses the Miaoli module design



Reserve Phase 1 capacity

Send rack count, per-rack power, term and target go-live. Sales and engineering will reply together with a deployment plan.

sales@starai.tw
starai.tw

Phase 1 design values

VR NVL72 racks	24
GPUs	1,728
IT load Max-Q / Max-P	4,962 / 5,898 kW
Facility peak demand	5,811 kW
PUE peak / annual	1.171 / ≈1.11
Liquid-cooled share	≈ 92%
Supply water	45 °C
Support racks	18 × 25 kW
Battery ride-through	LFP · 5 min
Prefabricated modules	19

DR4N3 distributed redundancy

Every IT module is fed by two different power blocks, never shared within a pod. Each block runs near 62% in normal operation and no more than 98% if any one fails.

	PB-1	PB-2	PB-3	PB-4
ITM-11	A	B	·	·
ITM-12	·	·	A	B
ITM-21	A	·	B	·
ITM-22	·	A	·	B
ITM-31	B	·	·	A
ITM-32	·	A	B	·

■ Feed A ■ Feed B

Power and cooling

Power	Gas gensets / Taipower → 24 kV RMU → 2,500 kVA × 4 → UPS + LFP → A/B busway 1,600 A × 12 → VR NVL72
Cooling	Cold plates, 100% liquid → rack loop 45 °C → CDU 2.5 MW × 2 per pod → adiabatic dry coolers 8 + 1; plant water via plate HX 2 × 50% as backup

Configurations

1 rack	Half pod	Full pod	All of Phase 1
72 GPU	288 GPU	576 GPU	1,728 GPU
188 / 227 kW	752 / 908 kW	1,504 / 1,816 kW	4,512 / 5,448 kW

From inquiry to go-live

01	02	03	04
Capacity and spec fit	**Site visit and review**	**Contract and reservation**	**Install, accept, hand over**
≈ 2 weeks	≈ 4 weeks	From signing	From Q1 2028

Values are design-stage results; contract and acceptance govern. Images are 3D renderings, not photographs. GPU figures follow NVIDIA public data; the OEM spec sheet governs.

Reserve Phase 1 capacity

Send rack count, per-rack power, term and target go-live. Sales and engineering will reply together with a deployment plan.

sales@starai.tw
starai.tw