

South Korea / Facility / Published revision 1

KR1 Gangnam Data Centre

40 MW • Facility power

KR1 Gangnam facility design

Also known as: KR1 GDC • Gangnam Data Centre • KR1

Development status: operational

Empyrion Digital operates a carrier-neutral hyperscale colocation facility in Yangjae-dong, Seocho-gu, Seoul. Its July 2025 opening announcement reports 29.4 MW IT load. Historical 40 MW broader power claims are retained separately; Gangnam branding does not establish a Gangnam-gu administrative address.

Last researched: 2026-10-07 | Last verified: Not independently verified

Tracked dataset only. Unknown values are not zero. Evidence dates and measurement definitions must be considered when comparing sites.

Site photographs

No approved property photo available.

Site profile

Field	Published information
Operator	Empyrion Digital [1] [2] [7]
Owner	Unknown
Business model	colocation [2] [4]
Scale	hyperscale [5]
Country	South Korea [1] [3]
State / region	Seoul [1] [6]
Metro area	Seoul metropolitan area [1]
City / locality	Seoul [1] [3]
Address	224 Yangjae-dong, Seocho-gu, Seoul, South Korea [1] [3] [6]
Coordinates	Unknown • unknown precision. Operator and government records identify Yangjae-dong 224 in Seocho-gu; no corroborated facility point was established.
Parent	Not assigned

Capacity evidence

Do not add these claims together. IT load, facility power, grid connection and unspecified power are different measurements. Cumulative and incremental scopes remain separate.

Measurement	Development scope	Evidence / accounting
29.4 MW IT load	KR1 Gangnam facility operational · cumulative	[1] reported · 2025-07-02 Excluded from totals. Opening-announcement date; reported rated IT load, not measured consumption or occupied capacity.
40 MW Unspecified power	Gangnam Data Centre development under construction · cumulative	[4] reported · 2023-06-08 Excluded from totals. Groundbreaking-announcement date; source does not define power basis. Overlaps the later facility claim and must not be added to IT capacity.
40 MW Facility power	KR1 Gangnam facility design under construction · cumulative	[5] reported · 2025-03-07 Excluded from totals. Article publication date; operator-attributed explanation distinguishes total capacity from 29.4 MW IT and cooling overhead. Secondary translated reporting, not utility confirmation.

Development timeline

2023-06-08 · actual_groundbreaking · Groundbreaking announced

Empyrion announced groundbreaking for its first South Korean facility. [4]

2025-H1 · planned_ready_for_service · Original service target

Groundbreaking announcement anticipated readiness in the first half of 2025. [4]

2025-08 · planned_opening · Later reported opening target

March reporting anticipated August opening; this was a forecast, distinct from the July grand opening. [5]

2025-07-02 · actual_grand_opening · Grand opening

Operator announced KR1 as its second operational Asian asset. [1]

Disclosed specifications

Operator-reported facility area: 30,714 sqm

Opening announcement says the facility spans this area; the indexed facility page calls it colocation space. Do not equate with entire mixed-development gross floor area. [1]

Planning-area land: 9,782.6 sqm

Historical KCTC special planning area at Yangjae-dong 224; includes broader R&D development, not proven exclusive data-centre land. [6]

Reported total floor area: 60,000 sqm

March 2025 secondary report describes three basement and nine above-ground levels; final as-built area and office allocation remain unresolved. [5]

Energy design: Building-integrated photovoltaic facade

Investor-announced design feature; generation output not established. [4]

Cooling and density: Liquid cooling on floors 7-8; up to 130 kW per rack

March 2025 operator-attributed design reporting; deployment and actual tenant rack density not independently established. [5]

PUE: 1.3

Reported design figure in March 2025; not measured operational performance. [5]

Connectivity: Carrier-neutral platform; Nokia 7250 IXR and 7210 SAS deployment announced

Nokia release describes prospective network deployment; completion and carrier list not confirmed. [7]

General contractor: Daewoo E&C

Identified in June 2023 investor groundbreaking announcement. [4]

Construction-contract counterparty: Gaya PFV Co., Ltd. (가야프브이씨)

Historical contract disclosure; ownership relationship to Empyrion and current title remain unestablished. [8]

Research gaps

- Corroborated coordinates and Google Maps place identity
- Current legal property owner and project-company ownership
- Occupied versus available IT capacity
- Grid connection capacity and utility documentation
- Final as-built area and office/data-centre boundaries
- Current tenants, certification records and measured efficiency
- Reusable completed-property photography

Sources and field evidence

Attribution does not establish independent verification or permission to reuse images. URLs refer to public evidence.

[1] Empyrion Digital celebrates grand opening of KR1 Gangnam Data Centre

<https://empyriondigital.com/empyrion-digital-celebrates-grand-opening-of-kr1-gangnam-data-centre/>

Published: 2025-07-02 · Retrieved: 2026-10-07

Announces operational launch, 29.4 MW IT load and Yangjae-dong 224 address in Seocho-gu, Seoul.

[2] South Korea — Empyrion Digital

<https://empyriondigital.com/south-korea/>

Published: Unknown · Retrieved: 2026-10-07

Current regional page identifies KR1 as operating since 2025 and promotes colocation.

[3] KR1 Gangnam Korean factsheet

https://empyriondigital.com/wp-content/uploads/2024/03/KR1-Gangnam_Factsheet-KOR.pdf

Published: Unknown · Retrieved: 2026-10-07

Operator factsheet identifies Korean alias, Seocho-gu address, 40 MW data-centre power capacity and planned first-half 2025 opening; publication date not established.

[4] Empyrion breaks ground on KR1 Seoul DC

<https://www.serayapartners.com/news/empyrion-breaks-ground-on-kr1-seoul-dc>

Published: 2023-06-08 · Retrieved: 2026-10-07

Investor announcement describes groundbreaking, 40 MW development, nine-storey design, carrier neutrality, photovoltaic facade and Daewoo E&C contractor.

[5] A Large Data Center Opens in Gangnam Yangjae... Optimizing Support for AI Technology

<https://www.asiae.co.kr/en/article/2025030714313639317>

Published: 2025-03-07 · Retrieved: 2026-10-07

Reporting attributed to an operator representative distinguishes 40 MW total capacity from 29.4 MW IT equipment consumption; describes hyperscale design and an anticipated August opening. English page uses AI translation.

[6] Seoul City Gazette No. 3695, 15 July 2021

https://event.seoul.go.kr/snews/data/CN_MST/seoulsibo_20210715104757_20124.pdf

Published: 2021-07-15 · Retrieved: 2026-10-07

Pages 18–21 identify the KCTC special planning area at Yangjae-dong 224, 9,782.6 square metres, for R&D data-centre development.

[7] Nokia selected by Empyrion Digital to power KR1 Gangnam Data Center connectivity

<https://www.globenewswire.com/news-release/2025/08/05/3127006/0/en/Nokia-selected-by-Empyrion-Digital-to-power-KR1-Gangnam-Data-Center-connectivity.html>

Published: 2025-08-05 · Retrieved: 2026-10-07

Nokia release dated 5 August describes newly launched Seoul facility and planned deployment of Nokia gateway and aggregation equipment.

[8] Single sales/supply contract disclosure — Gangnam Data Centre and Office construction

<https://stock.mk.co.kr/news/disclosure/template/5430>

Published: Unknown · Retrieved: 2026-10-07

Republished disclosure identifies Yangjae-dong 224, contract counterparty Gaya PFV and contract date 31 January 2023; does not establish current ownership.

- Name: [1]
- Aliases: [1] [3] [4]
- Kind: [1]
- Country: [1] [3]
- Region: [1] [6]
- City: [1] [3]
- Metro: [1]
- Address: [1] [3] [6]
- Operator: [1] [2] [7]
- Business Model: [2] [4]
- Scale: [5]
- Statuses: [1] [2] [7]
- Summary: [1] [3] [4] [5]
- Location: [1] [6]
- Stable identifier: ee55f579-487d-4670-8ee2-5a425d3b473e