FOR YOU / HIGHLIGHTS • EDITOR’S LETTER

An optical deal and a power test

Marvell and Lumentum signed an all-stock deal, while OpenAI outlined how future campuses could reduce power demand. The deal needs approvals; the grid program needs measurable load reductions. This issue also follows Tencent's protein models and Toyota's plans to integrate autonomous vehicles at a Japanese factory.

Enterprise value, memory data rates and flexible load describe different things. Closing conditions, platform tests and actual dispatch determine what each delivers.

Protein models available for local testing

HyInv proposes sequences from backbones; HyPLM-Flash includes an INT8 inference engine.

Tencent Hunyuan • Hyra results repository

How a compute campus could shed load

An agreement covers up to 1,000 MW of demand response at a Georgia pilot still in development.

OpenAI • Grid Protectors Program

Optical connectivity deal signed

The exchange ratio is 4.5 to one. Shareholder and regulatory approvals are still required.

Marvell and Lumentum • transaction announcement

01 / AI companies

2026-11-02 • New

Tencent Hunyuan releases two tools for protein research

HyInv proposes amino acid sequences for a protein backbone. HyPLM-Flash is a protein language model with an INT8 inference engine. The team released weights, inference code and technical reports.

The tools call for different tests. Researchers can examine whether proposed sequences form the desired structure, and separately measure representation quality and inference cost on their hardware. Released weights make these comparisons possible.

Tencent Hunyuan • Hyra results repository

2026-11-02 • New

LifeVal evaluates assistance with everyday tasks

OpenAI drew on time-use studies and a survey of 3,995 respondents to design LifeVal. The evaluation covers tasks people want help with, including finding childcare, accessing public services and planning a household budget.

Teams comparing assistants can start with the outcome they need, then test whether the system delivers it. The vendor's scores still need checking against services available in the user's location and account.

OpenAI • LifeVal research

02 / AI product tracker

Product	Version / date	Changes and sources
vLLM	0.33.0rc3 2026-11-02 New this issue • preview	The rc3 candidate notes list support for Beam-1.0. Tracked as preview based on the release tag. vLLM release notes
OpenAI Python	3.42.1 2026-11-02 Recent version • stable	Recent stable patch preserving Responses WebSocket connection behavior. OpenAI Python release notes
Codex CLI	0.167.0-alpha.3 2026-11-02 Recent version • alpha	The prerelease lists a version tag without itemized feature changes. Codex CLI release notes
Codex CLI	0.166.0 2026-10-30 Recent version • stable	Recent stable baseline with keyboard-driven transcript selection, tracked separately from the alpha channel. Codex CLI release notes

03 / AI chips

2026-11-02 • Past 72 hours

SMART Modular introduces DDR5-12800 memory modules

Penguin Solutions introduced a SMART Modular server MRDIMM that multiplexes two physical ranks into one logical rank. The stated data rate is DDR5-12800, with optional Zefr reliability testing.

Buyers need to confirm server compatibility and measure throughput on a memory-bound workload. The module data rate alone does not establish a model's token generation speed.

Penguin Solutions • MRDIMM announcement

04 / Embodied AI

2026-10-30 • Seven-day watch

Toyota plans factory integration of Waymo hardware in Japan

Toyota and Waymo plan to start testing and validating an autonomous bZ4X fleet in Japan in 2027. Toyota's Takaoka plant in Aichi will handle both base-vehicle assembly and integration of the autonomous-driving hardware.

Factory integration shifts the engineering question from individual retrofits to consistency across vehicles. The announcement sets out a test plan, with the UK and other markets to follow. It gives no date for public rides in Japan.

Toyota and Waymo • joint announcement

05 / Infrastructure

2026-11-02 • New

OpenAI plans to reduce campus demand when the grid is strained

OpenAI announced Grid Protectors and intends to pilot it at its Effingham campus in Georgia, which is still in development. The company says its agreement with Georgia Power includes up to 1,000 MW of flexible demand response.

The utility needs to know how much demand can be shed, how quickly and for how long. The contractual ceiling and the energy reduction actually delivered should be tracked separately.

OpenAI • Grid Protectors Program

Nov 2 UTC / Nov 3 Beijing • New

Amazon Connect flows can call MCP tools

Amazon Connect Customer adds an External Tool block. Through Bedrock AgentCore Gateway, a flow can retrieve data from third-party systems or trigger actions using existing tools, reducing the need for custom Lambda functions for those calls.

A contact center can test read-only case lookups first and set separate permissions for actions that change customer records. The announcement lists nine regions, so teams deploying across regions need to check each one.

AWS • Amazon Connect release

06 / Policy

Oct 28 US / Oct 29 Beijing • Seven-day watch

US directs negotiations on imports of robotics and industrial machinery

In an October 28 proclamation, the US president directed the commerce secretary and trade representative to negotiate with appropriate trading partners on imports of robotics, industrial machinery and components, and report progress within 180 days.

Suppliers can track which partners and products enter negotiations. Federal Register publication came after the White House announcement. The direction to negotiate supplies no new uniform tariff rate for pricing a shipment.

White House • Proclamation 11077

07 / Business

2026-11-02 • New

Marvell signs an all-stock deal for Lumentum

The companies signed a definitive agreement to exchange each Lumentum share for 4.5 Marvell common shares. The announcement gives an implied enterprise value of $115 billion and targets closing in the first half of 2028.

The deal would bring optical components and data-center connectivity chips into one portfolio. The exchange ratio is fixed, while the stock consideration moves with share prices. Closing still requires shareholder and regulatory approvals.

Marvell and Lumentum • transaction announcement

08 / AI markets

Memory stocks diverge across Korea and the US

On November 2, SK hynix rose 3.81% and Samsung Electronics gained 1.78%. Micron fell 5.78%, Sandisk 6.59% and CXMT 0.19%. Among the US names, Amazon rose 2.20% and Intel fell 8.80%.

As of 08:30 Beijing time, November 2 was the last complete session in all four markets. Closes are asynchronous and retain USD, CNY, HKD and KRW. SenseTime closed at HKD 1.11; its source did not report the percentage change. Figures are attributed excerpts from Stock Analysis. The watchlist is not a sector index.

Memory

Company / ticker	Market / FX	Close	Change	Session / source
Micron / MU	US / USD	833.59	-5.78%	2026-11-02 Micron close · Stock Analysis
Sandisk / SNDK	US / USD	1,075.08	-6.59%	2026-11-02 Sandisk close · Stock Analysis
SK hynix / 000660	KR / KRW	1,472,000	+3.81%	2026-11-02 SK hynix close · Stock Analysis
Samsung Electronics / 005930	KR / KRW	229,000	+1.78%	2026-11-02 Samsung Electronics close · Stock Analysis
CXMT / 688825	CN / CNY	41.72	-0.19%	2026-11-02 CXMT close · Stock Analysis

Storage and components

Company / ticker	Market / FX	Close	Change	Session / source
Western Digital / WDC	US / USD	338.59	-7.52%	2026-11-02 Western Digital close · Stock Analysis
Seagate / STX	US / USD	593.76	-7.88%	2026-11-02 Seagate close · Stock Analysis
Montage Technology / 688008	CN / CNY	164.58	+3.97%	2026-11-02 Montage Technology close · Stock Analysis
GigaDevice / 603986	CN / CNY	265.67	+3.05%	2026-11-02 GigaDevice close · Stock Analysis
Longsys / 301308	CN / CNY	214.63	+1.16%	2026-11-02 Longsys close · Stock Analysis
BIWIN / 688525	CN / CNY	131.86	+0.83%	2026-11-02 BIWIN close · Stock Analysis

Compute and manufacturing

Company / ticker	Market / FX	Close	Change	Session / source
Broadcom / AVGO	US / USD	322.23	-1.18%	2026-11-02 Broadcom close · Stock Analysis
TSMC ADR / TSM	US / USD	398.63	-1.85%	2026-11-02 TSMC ADR close · Stock Analysis
NVIDIA / NVDA	US / USD	202.06	-1.26%	2026-11-02 NVIDIA close · Stock Analysis
AMD / AMD	US / USD	466.84	-7.52%	2026-11-02 AMD close · Stock Analysis
Intel / INTC	US / USD	59.97	-8.80%	2026-11-02 Intel close · Stock Analysis
Cambricon / 688256	CN / CNY	861.00	-2.16%	2026-11-02 Cambricon close · Stock Analysis
Hygon / 688041	CN / CNY	177.00	+4.00%	2026-11-02 Hygon close · Stock Analysis
SMIC / 00981	HK / HKD	43.62	+1.49%	2026-11-02 SMIC close · Stock Analysis

Networking, power and cooling

Company / ticker	Market / FX	Close	Change	Session / source
Arista Networks / ANET	US / USD	164.14	-2.80%	2026-11-02 Arista Networks close · Stock Analysis
Vertiv / VRT	US / USD	224.24	-3.55%	2026-11-02 Vertiv close · Stock Analysis

Platforms and applications

Company / ticker	Market / FX	Close	Change	Session / source
Microsoft / MSFT	US / USD	507.12	-2.83%	2026-11-02 Microsoft close · Stock Analysis
Alphabet / GOOGL	US / USD	278.99	-0.30%	2026-11-02 Alphabet close · Stock Analysis
Meta / META	US / USD	606.73	-1.34%	2026-11-02 Meta close · Stock Analysis
Amazon / AMZN	US / USD	245.63	+2.20%	2026-11-02 Amazon close · Stock Analysis
iFlytek / 002230	CN / CNY	37.45	+3.34%	2026-11-02 iFlytek close · Stock Analysis
Baidu / 09888	HK / HKD	75.65	-0.07%	2026-11-02 Baidu close · Stock Analysis
Alibaba / 09988	HK / HKD	99.45	+2.47%	2026-11-02 Alibaba close · Stock Analysis
Tencent / 00700	HK / HKD	392.20	+2.24%	2026-11-02 Tencent close · Stock Analysis
SenseTime / 00020	HK / HKD	1.11	—	2026-11-02 SenseTime close · Stock Analysis

Next watch shareholder and regulatory approvals, measured demand response and validation of the Japanese test fleet.