Racer Tech

# COMPANY INTRODUCTION

Our Contact
Ms. Yvonne

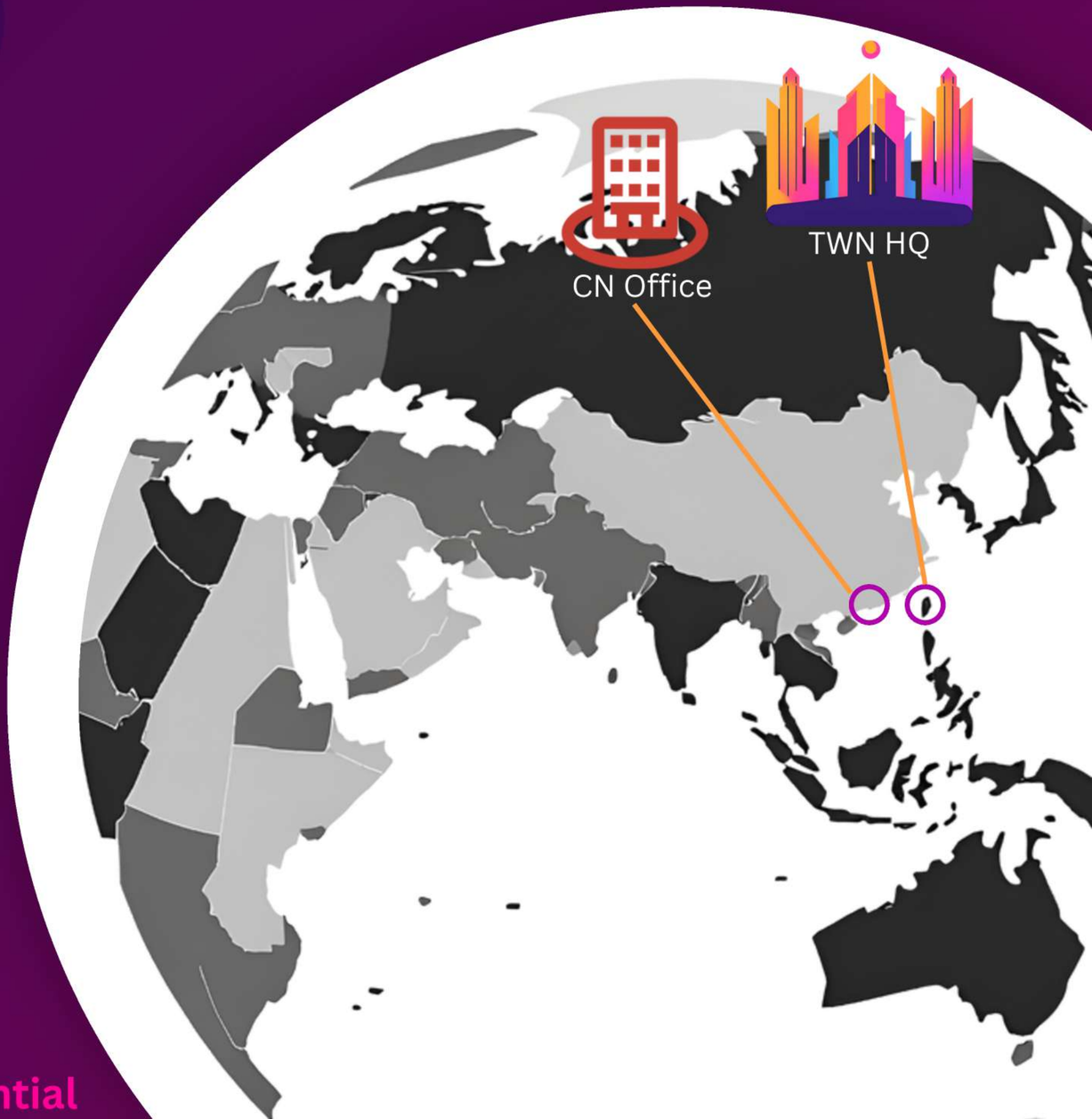
Our Website
www.racer-tech.com

# Company | Racer Tech

- Since：2017
- Capital：USD 10M
- Emplyee：30
- Founded by a group of engineers with over 15 years of industry experience in IC design and system software development, our company specializes in USB display technology and related peripheral applications. We are committed to delivering high-performance, innovative solutions through advanced IC design and system integration.
- The only global provider offering USB-based multi-display and video wall solutions fully compatible with macOS.
- In-house chip design and cross-platform system and driver integration capabilities.

Headquartered in Zhubei, Taiwan, with a branch office in Longhua, Shenzhen to serve customers locally.

吳建斌
**Robinson**
**CEO**



# 2024 Patent | Exhibition | Award-winning

Since its founding, Racer Tech has obtained over ten patents in Taiwan and China by 2024, enhancing its leadership in USB display technology. Invited by the National Science Council's TTA, the company participated in the Taiwan Computer Show and Dubai Gitex Show in 2024. It plans to attend the CES exhibition in the U.S. in 2025, with collaborations with AUO. The company was recognized in the "Top 100 Startups" list, showcasing its commitment to innovation.

## Patent

Multithreaded Image Transmission System and Multithreaded Image Transmission Method

Cloud Desktop Display System

Power Detection Adaptation System and Power Detection Adaptation Method

A display device and audio-visual playback system capable of feedback detection information.

Multi-screen cloud desktop display system

Multi-screen combination splicing display system and display device

Method for multi-screen combination and splicing display system.

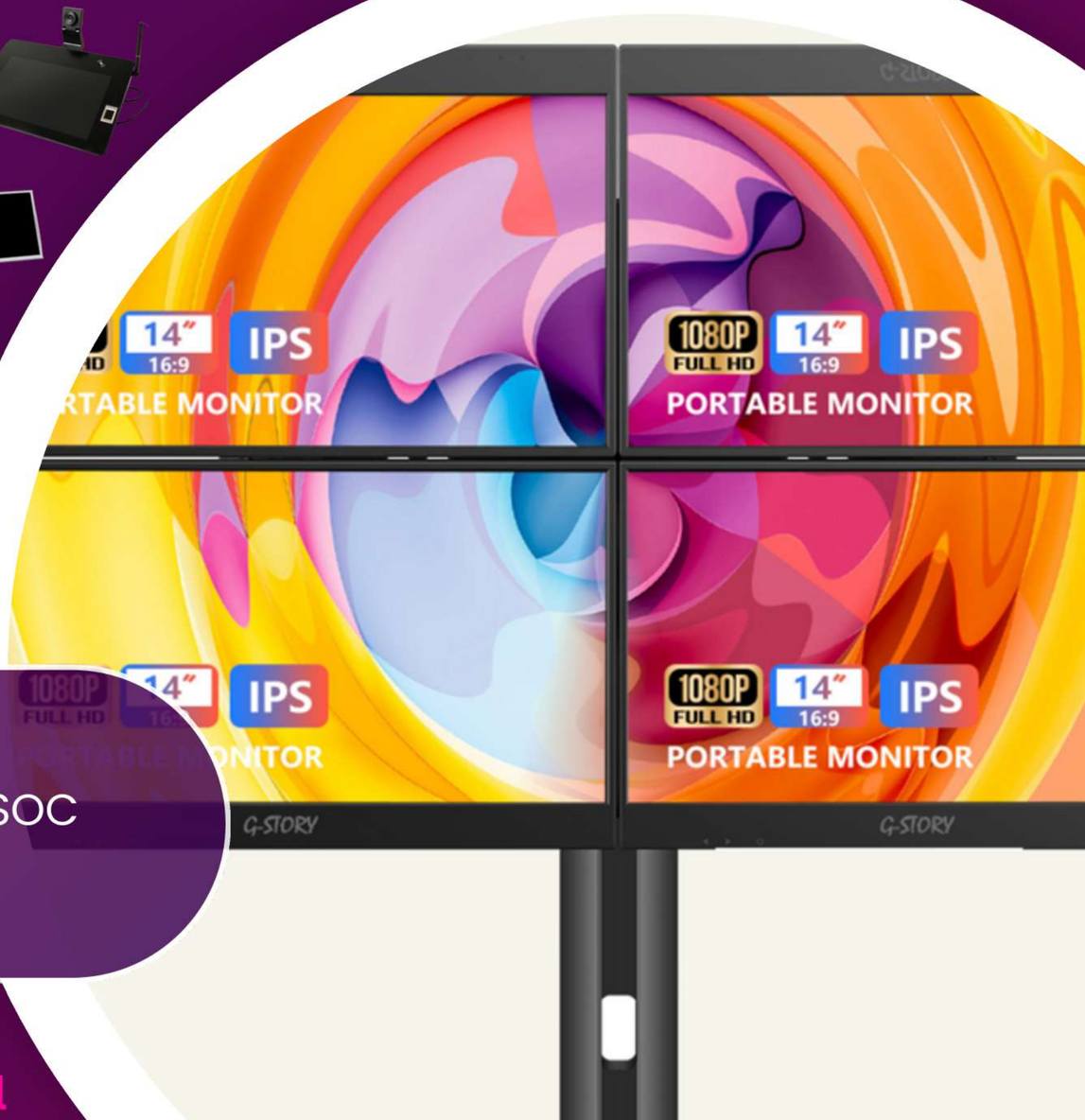
## Exhibition

2024 Taiwan Computex
2024 Dubai GiTex
2025 U.S CES Show

## Award

2024
Semiconductor
Startup 100
Winner

# Application | Multi Screen Monitor with TV Wall feature


## Solution and Success Story

USB Display Driver

TV Wall Software

Linux, Windows, macOS...

Over 95% OS Support USB Display Driver

The only multi-screen and screen mirroring support for macOS worldwide.

88xy USB Display SOC

# Cooperated Brand | Customer


FOPO
富博

FOPO is a leading global brand in external laptop displays, specializing in portable multi-screen solutions. Their USB triple LCD display products use the Racer Tech 88xy main chip, supporting multiple platforms such as Windows and macOS. Featuring plug-and-play functionality, high cost-effectiveness, and lightweight design, FOPO is highly favored by mobile workers and gaming users, maintaining its position as the top seller in the multi-screen market.

AUSNAT

Ausnat is an innovative display brand, and its product Transformers uses the Racer Tech 88xy USB display main chip to achieve a dynamic four-screen expansion design. It features plug-and-play, horizontal and vertical switching, and custom splicing functions, supporting both Windows and macOS. This significantly enhances multitasking and mobile work efficiency, and has received enthusiastic responses on the Kickstarter platform, being well-received by professional users and creators.


AUO

AUO has introduced Racer Tech's 88xy USB display main chip into its cholesterol liquid crystal display module, creating a plug-and-play high-contrast, low-power consumption display solution. By combining the multi-platform support and stable image output capabilities of the 88xy, it is widely used in scenarios such as commercial displays, public information signage, and as a second document display for laptop users, providing a new display experience that is lightweight, low-power, and benefits from the advantages of single-line USB transmission.

# USB Display IC Market | Success of Eco

## 88xy

### BP and Achievement

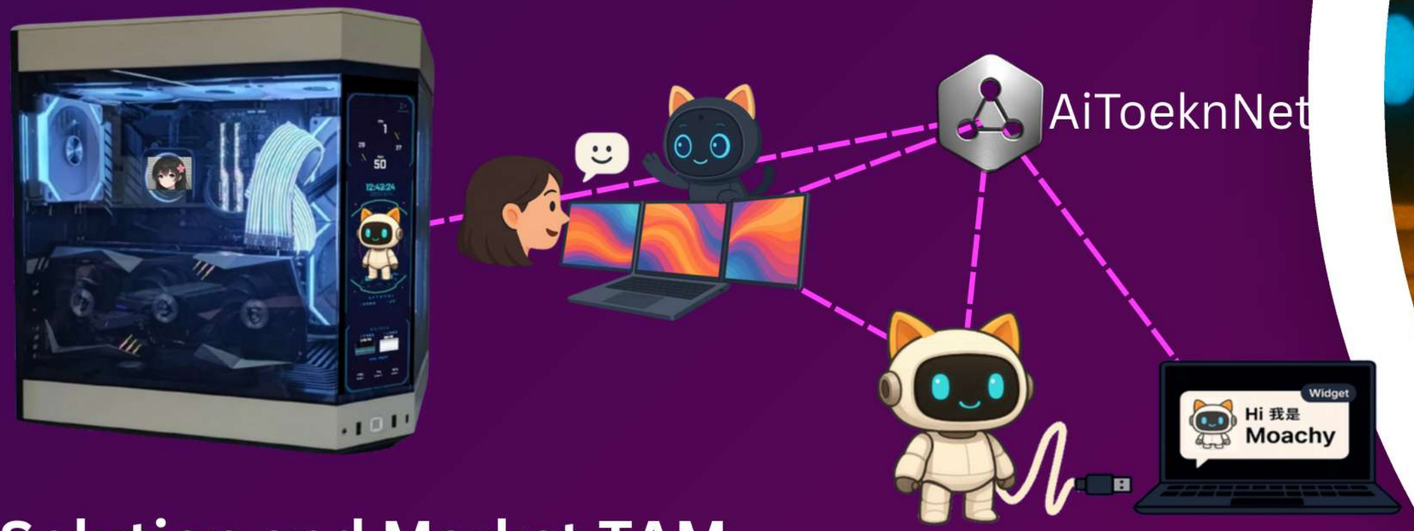
The 88xy is Racer Tech's core USB display main chip, supporting plug-and-play, multi-screen splicing, and cross-platform display. It is expected to ship 800,000 units by 2025, generating revenue of USD 3.2 million, maintaining a leading position in the global USB display chip market. It has been integrated into products from brands like FOPO, Ausnat, and Thermaltake, with applications ranging from triple-screen laptops, spliced displays, to chassis side displays. Furthermore, it is integrated with platforms like Zuming Studio and Case Display, expanding into creator and AI desktop interactive applications.

### USB LCD Display Leader

Racer Tech is consistently expanding its leadership in the USB display controller chip sector. By 2025, shipments are expected to reach 800,000 units, representing approximately 22.8% of the global market. The company has successfully integrated its products into applications such as education, business, industrial control, and secondary screens for computer cases, becoming the preferred partner for system brands and ODM/OEM manufacturers in Asia. It is anticipated that with the rapid growth of USB display demand and multi-screen applications, shipments will surpass 4 million units by 2028, with a market share increasing to 30%, firmly positioning Racer Tech in the top tier of global USB display controller chip providers. This also lays the foundation for establishing future platform integration standards.

Simultaneously, Racer Tech is actively venturing into the new blue ocean of Cholesteric Liquid Crystal Displays (ChLCD), collaborating with AUO to develop full-color, low-power, wide-temperature, large-size e-paper modules. These are suitable for smart cities, public information, energy-saving advertisements, and outdoor reflective displays. Production is set to begin in 2025, with an expected annual growth: 100,000 units in 2026, 500,000 units in 2027, and surpassing 1 million units by 2028. Market estimates suggest that by then, the global total of cholesteric displays will reach 13.67 million units, with Racer Tech expected to secure over 7.3% of the market share, steadily advancing towards becoming one of the top three global suppliers.

# Application | Chassis Display & LED & Widget + Ai Role





## Solution and Market TAM

Zuming Studio – Rolecraft
👑 World's First
No-Coding Rolecraft Ecosystem
Ai Roleplay Eco System – Ai + PC UI + HW
Case Display Platform – UI and Widget

18xy USB Bridge IC

# Gaming Slide LCD | Ai Widet | Case Display Mgnt SW

## Solve the pain points

For a long time, the visual modules inside gaming cases, such as LED strips, small-sized SPI LCDs on CPU cooling fans, and LVDS LCDs that display information on the side, have been designed and controlled independently by various component suppliers. This has resulted in a fragmented user interface with inconsistent styles and overlapping functions that cannot be integrated. This "each doing their own thing" situation has diminished the overall user experience and limited Racer Tech's space for innovation in appearance and interactive design. Most cases can only display simple lighting effects and static data, lacking a unified platform to integrate and control all visual modules and offer extended interactive experiences.

## Generate new value

Traditionally installed side widgets on LVDS LCDs mostly function to display CPU usage, memory usage, remaining hard drive capacity, motherboard temperature, or weather and clock information. While these contents are practical, they lack intelligence and extensibility, making it difficult for users to personalize settings or interact. By introducing Case Display Software and integrating cloud AI computing power connected via AiTokenNet, these LVDS LCDs are no longer just passive display devices but can transform into intelligent interactive interfaces.

Case Display Software offers a unified software platform that not only integrates the control and design styles of LED, SPI LCD, and LVDS LCD but also allows different roles or functional modules to be loaded through the widget framework. When users authorize their GPT subscription rights to AiTokenNet, these widgets will have capabilities such as voice recognition, conversation generation, emotional response, and role-playing, enabling natural language interaction with users. For example, users can have the display role inside the case remind them of high temperatures, discuss game strategies, or automatically change appearance and tone style according to time and situation. This not only breathes new interactive life into gaming cases but also ushers in a new era of deep integration between AI and personal devices.

# Brand | Customer


Lenovo is currently in discussions with Racer Tech regarding collaboration on dual-screen and triple-screen external display products. The company has expressed strong interest in the innovative integration of USB display technology with AI platforms. Lenovo's early release of the Tiko device already demonstrated its forward-thinking approach to multi-screen and interactive experiences. Looking ahead, Lenovo holds a highly positive attitude toward deeper collaboration once Zuming Studio and the Case Display Platform enter full commercial operation, with the shared goal of driving next-generation applications for multi-display setups and AI-powered desktop characters.


Thermaltake is collaborating with Racer [illegible] to develop a chassis side panel display based on the 88xy main chip, showcased at this year's Computex. The product features plug-and-play display capabilities combined with personalized visual effects, drawing significant attention. Thermaltake has high expectations for the upcoming Case Display Widget platform and looks forward to expanding applications in smart chassis innovation.

# Mix Mode NPU
# 77xy (Developping)

77xy is an AI NPU specifically developed for voice interaction and intelligent control. It has collaborated with leading 3D printing equipment manufacturers in Taiwan to integrate technology for process optimization in 3D printing and jointly apply for the government's "Chip Innovation Program." The core of this project focuses on defect detection. With a built-in AI model, it analyzes anomalies during the printing process in real time, such as layer misalignment, uneven filling, and extrusion issues. By combining image recognition and sensor data, it can automatically adjust printing parameters and issue compensation commands, significantly improving yield, reducing material waste, and achieving a more efficient and stable intelligent manufacturing process.

In the application of AI toys, 77xy also plays a central role. Its built-in speech recognition (STT), speech synthesis (TTS), and role play engine allow toys to understand children's voice commands in real time and respond with a human-like tone, making language or action responses based on the scenario. With support for streamlined parameter models, toys can complete natural language processing tasks on the device, reducing reliance on the cloud, enhancing interaction immediacy, and protecting children's privacy.

Further integrating with the AiTokenNet language computing network, 77xy can connect with users' language model subscription accounts (such as ChatGPT, DeepSeek), extending language model capabilities to toy devices and creating a local + cloud hybrid computing interaction mode. Brands can also update character models and personality settings via OTA, enabling characters to evolve with themes and upgrade interactions, establishing an AI toy platform with long-term value.

# IC & SOFTWARE & NPU ROADMAP

**Racer Tech Tool Chain**
Software

**88xy**
USB Display SOC
MP

**USB Display**
OS Driver

**18xy**
USB Bridge IC
MP

**TV Wall**
Software

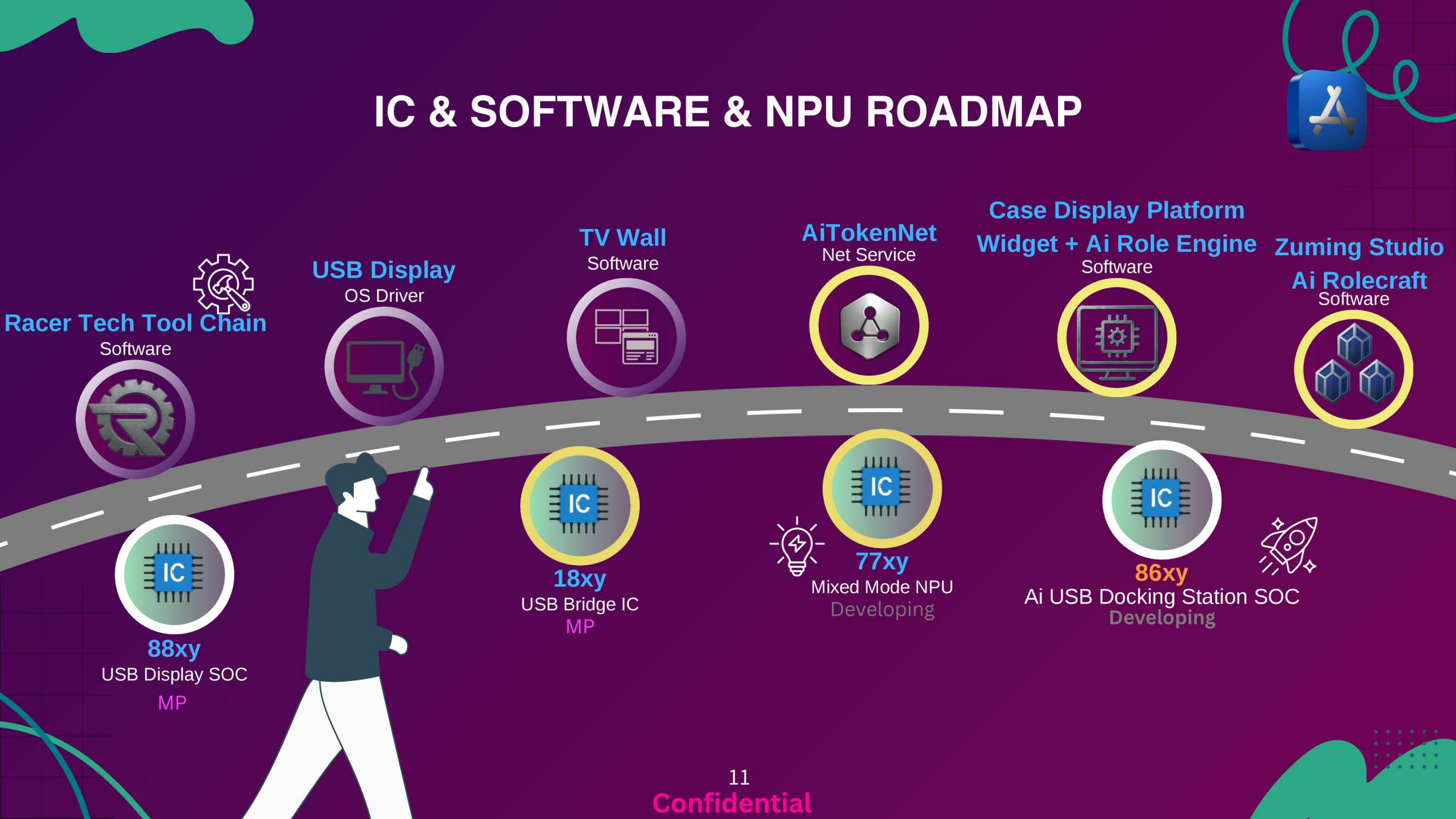
**AiTokenNet**
Net Service

**77xy**
Mixed Mode NPU
Developing

**Case Display Platform**
**Widget + Ai Role Engine**
Software

**86xy**
Ai USB Docking Station SOC
Developing

**Zuming Studio**
**Ai Rolecraft**
Software



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# Thank You

We are looking forward to collaborating with you in the future!

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