KTNF

COMPANY PROFILE

KTNF 'Leading the Localization of x86 Servers'

2023

KOREA TECHNOLOGY AND FUTURE

KTNF

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VISION of KTNF

Vision	Innovative IT Infrastructure Solution Provider with Global Competitiveness

The Company that is READY	'ALL TOGETHER' Culture	Challenge for the FUTURE
The Company that knows what to do and gets ready	The Culture that embraces not only ten steps of one person but also single step of ten people	Challenge on New Technologies continuously for the better Future

KTNF is Korea's leading IT technology company.

Since founded in 2001 under the motto of Korea Technology aNd Future, **KTNF has emerged as a server industry leader with the best technology and expertise**. KTNF is a trusted company that not only provides server circuit and system technology for services optimized for cloud and edge computing environments, but one that also supports your information and technology in response to the rapidly changing fourth industrial revolution environment based on expertise and excellent service.

To become a leader in IT technology in Korea, we will approach our customers with a more active attitude toward our customers. In addition, all KTNF executives and employees are always doing their best to provide better
service and the best information technology.

KTNF will always keep improving our customers based on trust and support and never forget that our growth must come from their support.

CEO Joongyeon Lee

NUMBER of KTNF

22
Businesses since 2001

80+
employees

40%
Professional & Specialist

The only / **Unique**

1
KR company to own design LAB in Taiwan

The only / **Unique**

1
KR company to certify global OS compatibility

1
KR company to obtain Nutanix certification

55
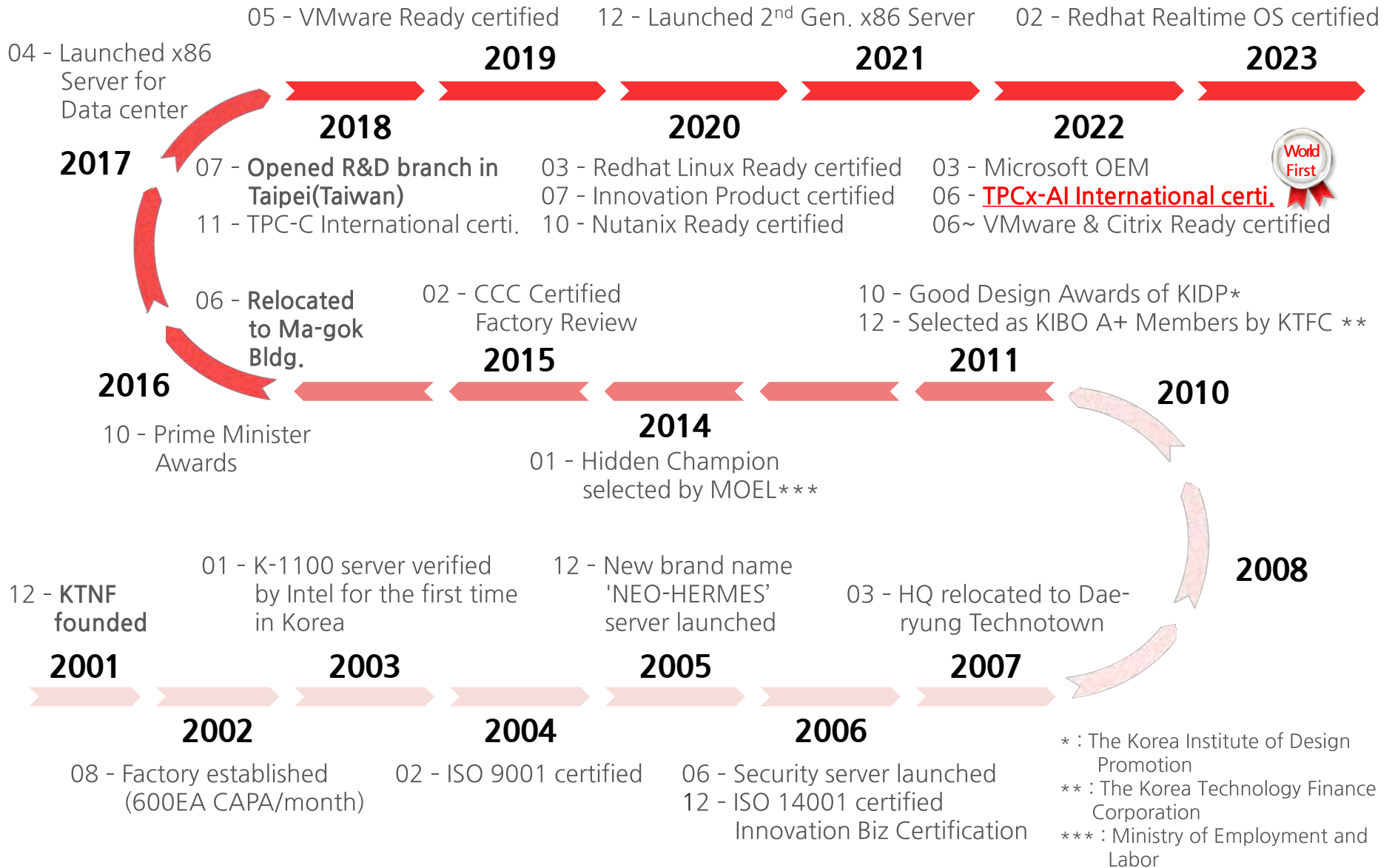### Innovative Products registered with the PPS*

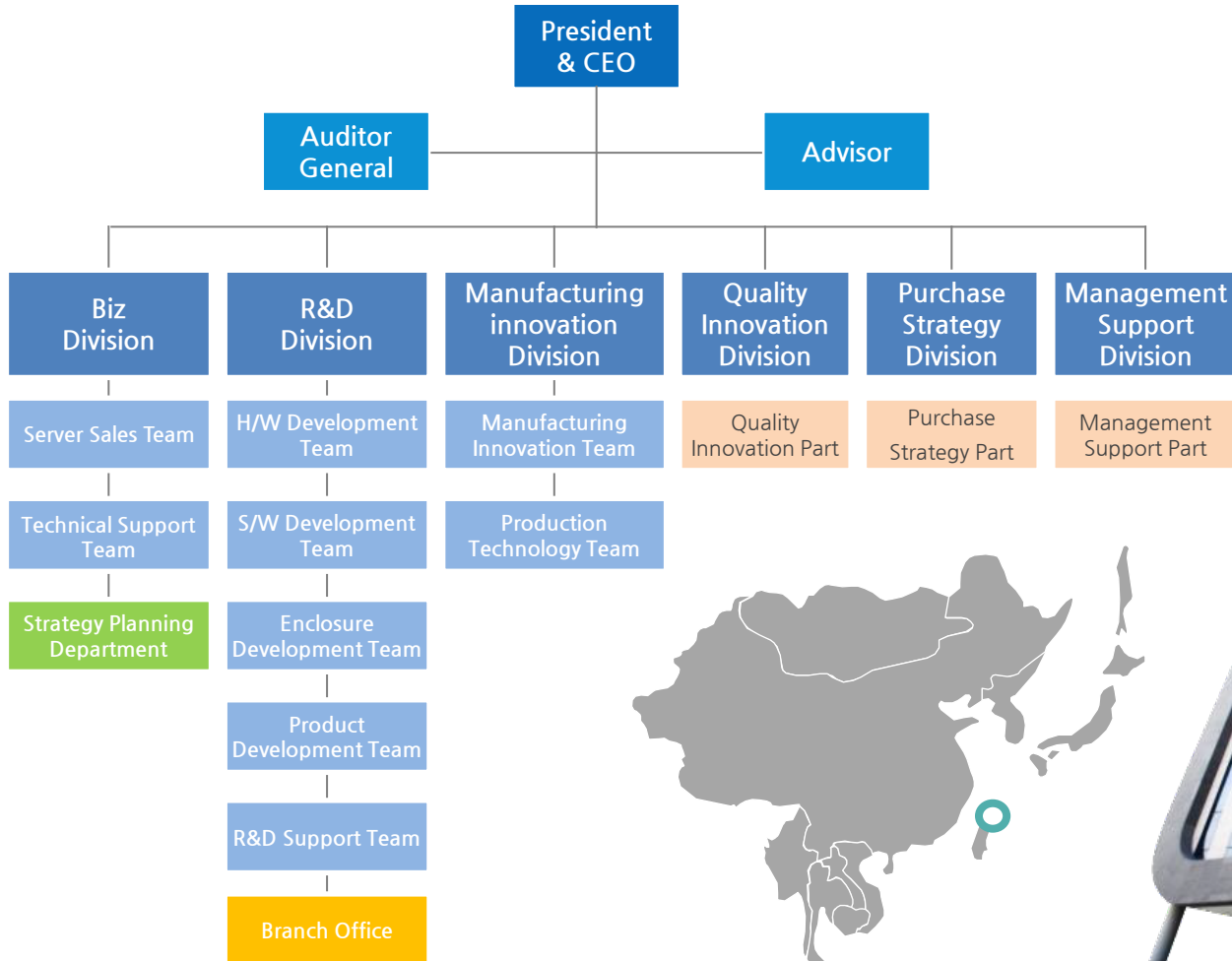## 10+
Patents

1000+
Partners & Customers

* : The Korea Public Procurement Service

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HISTORY of KTNF

05 - VMware Ready certified   12 - Launched 2nd Gen. x86 Server   02 - Redhat Realtime OS certified

04 - Launched x86
Server for
Data center

2019   **2021**   **2023**

2018   **2020**   **2022**

2017

07 - **Opened R&D branch in**   03 - Redhat Linux Ready certified   03 - Microsoft OEM
Taipei(Taiwan)   07 - Innovation Product certified   06 - TPCx-AI International certi.
11 - TPC-C International certi.   10 - Nutanix Ready certified   06~ VMware & Citrix Ready certified

World
First

06 - **Relocated**   02 - CCC Certified   10 - Good Design Awards of KIDP*
to Ma-gok   Factory Review   12 - Selected as KIBO A+ Members by KTFC **
Bldg.
                     2015   **2011**
2016   **2010**
                              2014
10 - Prime Minister
Awards   01 - Hidden Champion
                         selected by MOEL***

01 - K-1100 server verified   12 - New brand name   **2008**
12 - **KTNF**   by Intel for the first time   'NEO-HERMES'   03 - HQ relocated to Dae-
founded   in Korea   server launched   ryung Technotown

2001   **2003**   **2005**   **2007**

2002   **2004**   **2006**

08 - Factory established   02 - ISO 9001 certified   06 - Security server launched   * : The Korea Institute of Design
(600EA CAPA/month)   12 - ISO 14001 certified   Promotion
                                                          Innovation Biz Certification   ** : The Korea Technology Finance
                                                                                               Corporation
                                                                                          *** : Ministry of Employment and
                                                                                                Labor
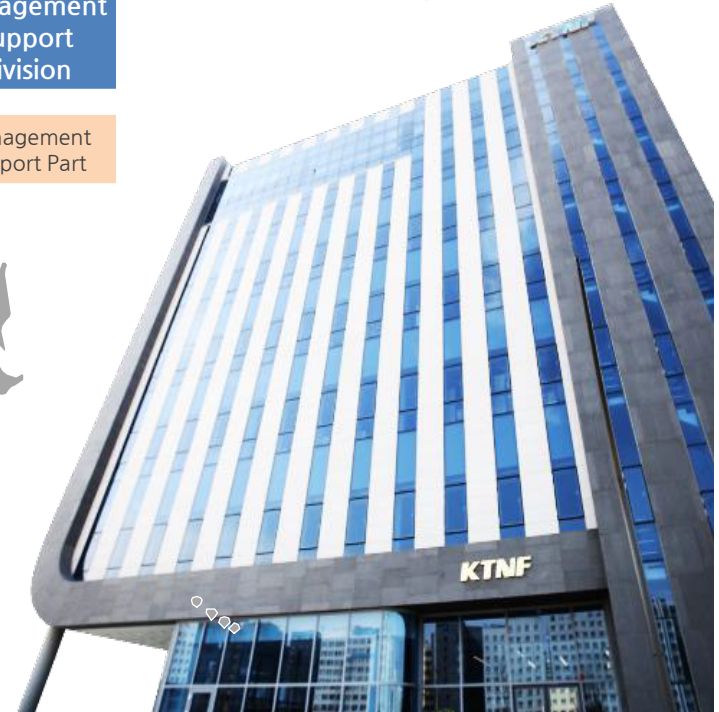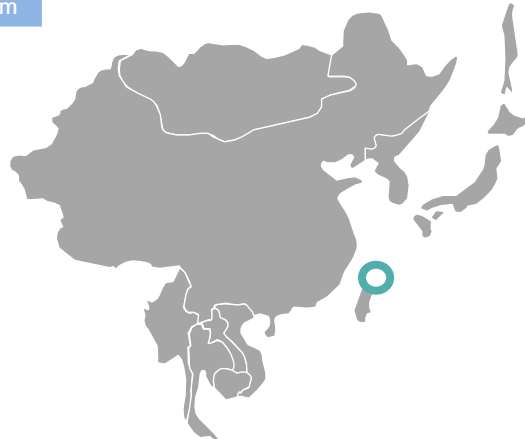
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ORGANIZATION of KTNF

6 Divisions, 1 Department, 9 Teams,
1 R&D Brand Office

LOCATION
KTNF Bldg. 21, Magokjungang 8-ro
3-gil, 07795, Gangseo-gu, Seoul

President & CEO

Auditor General

Advisor

Biz Division
- Server Sales Team
- Technical Support Team
- Strategy Planning Department

R&D Division
- H/W Development Team
- S/W Development Team
- Enclosure Development Team
- Product Development Team
- R&D Support Team
- Branch Office

Manufacturing innovation Division
- Manufacturing Innovation Team
- Production Technology Team

Quality Innovation Division
- Quality Innovation Part

Purchase Strategy Division
- Purchase Strategy Part

Management Support Division
- Management Support Part

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BUSINESS of KTNF

Wherever there is data, there is a KTNF server.

x86 Server

Security Appliance Server

AI / Big Data Server

Edge Server

ODM Server

Data generation	Save data	Data Analysis	Data consumption

x86 Server
- Self designed & built x86 motherboards and firmwares (BIOS and BMC etc.)
- Cloud, HCI, HPC and Virtualization Servers
- High Temperature server for datacenter

Security Appliance Server
- Protect internal systems from external intrusion and threats
- Firewall, IPS, UTM, DB Security, Web Firewall, VPN and Anti-Spam
- IoT Security Module etc.

AI/ Big Data Server
- High-performance GPU servers optimized for AI/ Deep Learning
- GPU servers for data modeling and simulation

Edge Server
- Edge computing optimized for various industrial sites (smart factory, AD*)
- Edge gateway and Edge server
- Rugged Edge server System

ODM Server
- Develop and manufacture appliance servers optimized for customer needs
- SDN and NFV etc.

＊ : Autonomous Driving

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R&D of KTNF

Own design and production technology for server systems

Concept → Plan → Develop-ment → Validation → Manu-facture → New Concept

Rotation
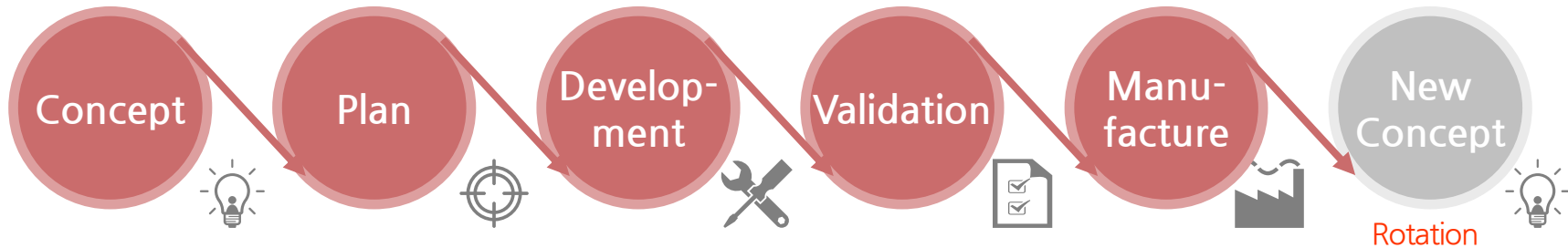
- ✅ x86 Server Motherboard and Platform Self-Design

- ✅ Firmware(BIOS and BMC) and System Enclosure self-development

- ✅ Versatile and professional verification capabilities (High speed signal processing and power integrity etc.)

- ✅ Collaborate with global & domestic companies such as Intel, Nutanix and Microsoft to prioritize and test the latest technologies

- ✅ Continue to carry out national projects with ETRI, KISTI and KETI etc.

Circuit
PCB Design
Board Design
Testing

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MANUFACTURING of KTNF

Strict manufacturing process management and quality control

Select parts and bring	→	Manufacture M/B and inspect	→	Assemble Server and Inspect	→	Quality Control and Packing	→	Shipment

Quality

- All Clean Room (Conveyor and cell line)
- Aging Room (400 units aging at the same time)
- 4 Steps Inspection (IQC, LQC, FQC, OQC)

Smart Factory

- Application of Integrated Production Management System(MES, POP)
- Digitalization for all work instruction(eSOP)
- 100K units manufacturing capacity per year

Security

- Tight access control (Only authorized persons can enter)
- Block access from external network

Preparing

Air-shower

Aging Room

Assembling (Clean Room)

QC & Packing

Customer Inspection

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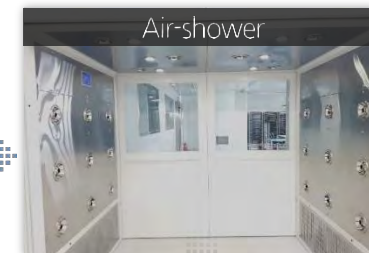
QUALITY MANAGEMENT of KTNF

Operate quality Radar for thorough pre- and post-quality management

Employees

Executives

KTNF Quality Mgmt.

Pre-Quality control
(Development/Production)

Post-Quality Control
(Operation/Maintenance)

Shift-Left

Shift-Right
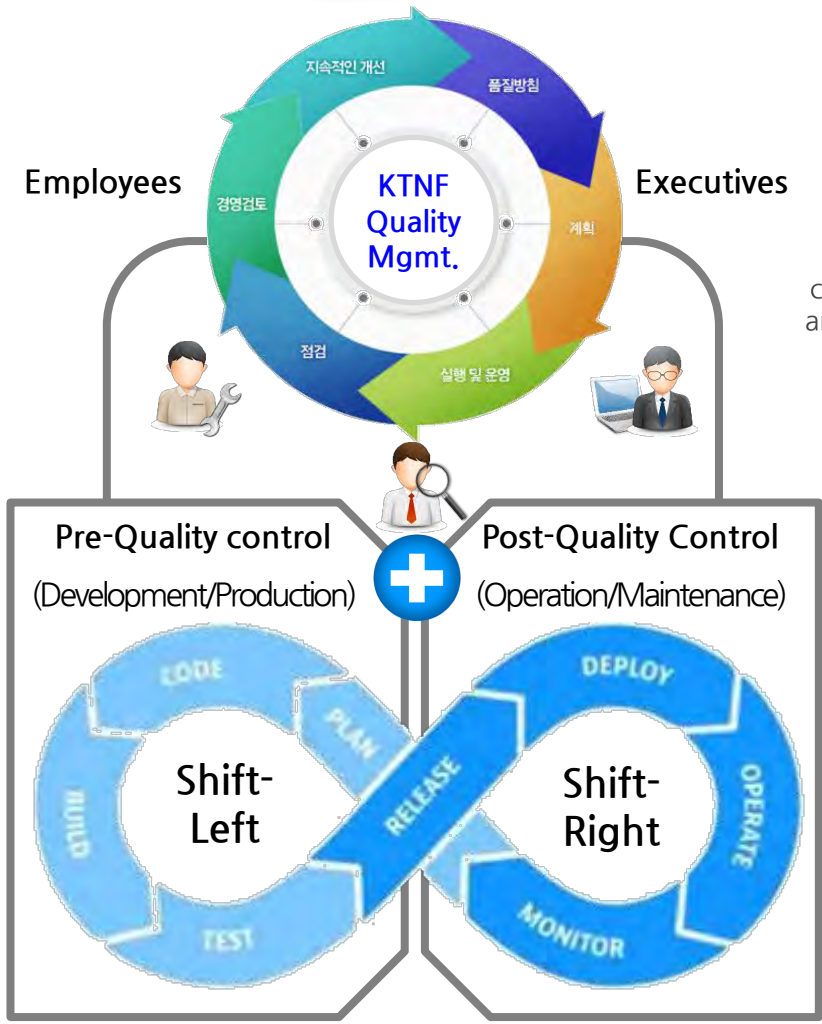
constant temperature and humidity chamber

Power consumption test equipment

ESD test equipment

ENA Network Analysis Equipment

✓ **High temperature tolerance stability test chamber facilities** (Temperature -40℃ to 100℃, humidity 20-98%)

✓ **Ultra high-speed network performance test facilities** (10GbE, 40GbE, 100GbE)

✓ **Power-related reliability verification facilities**

✓ **Network analysis facilities**

✓ **Electrostatic Discharge Resistance Facility Possession**

✓ **Power noise, signal analysis facilities**

Tektronix DPO7104

Ground conduction/ withstand voltage test

Spirent SPT-N4U equipment

Thermometer

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TECHNICAL SUPPORT of KTNF

Monitoring and Technical Support services(Every day Every time)

Customer Site

Failure Alert

KTNF Call Center

2nd Technical Support

3rd Technical Support

Except for simple failure

Critical failure

Call reception and Health check

KTNF HQ
Technical Support Team
(Failure Recovery Support)

KTNF HQ
R&D Top Specialist
(Detailed analysis of failure causes)

Completed

1st On-site Support
(A dedicated engineer)

Completed

Completed

Completed

Database

History management (result check)

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REBRAND PROCESS of KTNF

Provide the optimal system for your successful business

Develops and manufactures servers that customers need

Customer Requirements

KTNF

Customer **Voice** **+** KTNF **Technology** **=** **KSF** (Key Success Factors)

✅ Gain experience in developing service-optimized appliance servers (Security appliance, all-flash server, server switch, etc.)

✅ Reflect customer requirements from design to manufacturing

✅ Gain customer product quality through a systematic verification process

KTNF's 5 Methods for Branding Customers

※ From the Mainboard to Original Development Manufacturing

Main Board

Firmware (BIOS..)

ODM

Package

Bezel/ Label

Chassis

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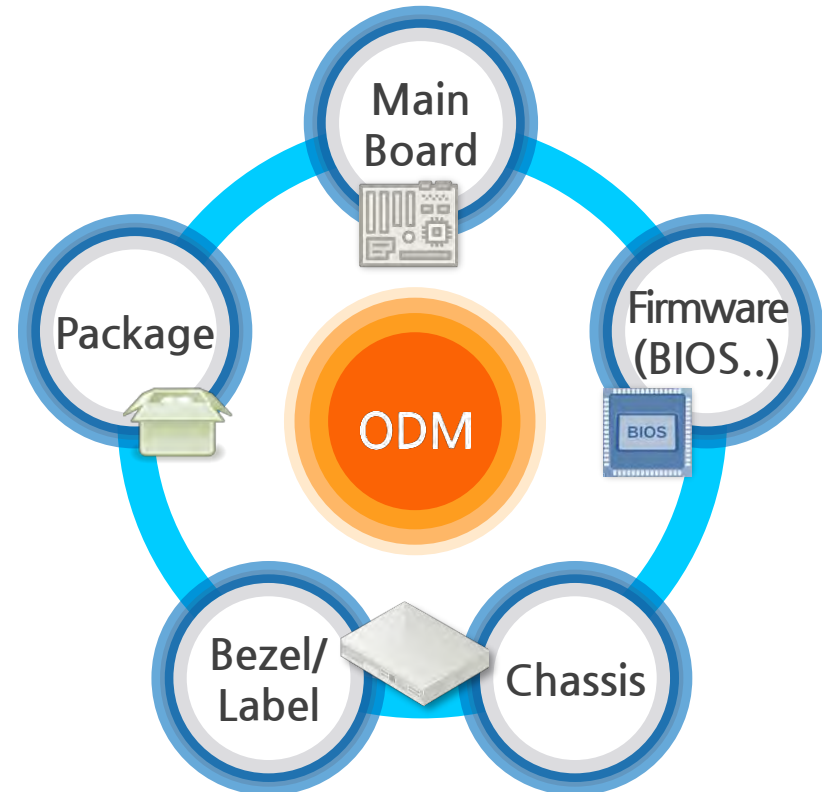
REFERENCE of KTNF

x86 Server

Network Security Server

AXGATE Security and Beyond

WINS

MONITORAPP

Genians

XNsystems Be With The Network!

Pumpkin NETWORKS

AhnLab

SECUI

COMTRUE Technologies

SOLID WINTECH 쏠리드윈텍

NexG 넥스지

Wellconn

secureletter.

COREMAX TECHNOLOGY

스마트어스 SMART US

EASYCERTI (주)이지서티

PrimaryNet IT Solution Leader 프라이머리넷

N&S Network & Security

Creative Convergence ntels

NNSP Next network security Provider

Future Systems

ROOT Information & Communication

ENTROLINK

DEEPSoft Leading #1 Advanced eMail Solution & anti-spam technology

NetMan

Overseas customers(Export)

msi (Taiwan)

Nusoft NUSOFT Internet Security Fighter (Taiwan)

RUGGED TOOLING (Finland)

NetLoad Inc. (USA)

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Product Portfolio ≫ Summary

x86 Server

Domestic server systems with self-designed and built x86 motherboards(3 Types Server)

Network Security Server

Network security server systems with high-performance processes
(Firewall, IPS, UTM, VPN, Anti-Spam and
 Security Solution etc.)

ODM & Edge Server

ODM Server and Edge computing system reflecting customer needs
(Servers for Cloud Edge Computing)

SDS Server   Media Server   Edge Server

High-End

Mid-Range

Low-End

Entry

01/ 1 Socket Server

KR320
(Rack 1U)

KR330
(Rack 2U)

KP320
(Tower)

02/ 2 Socket Server

KR570
(Rack 1U)

KR580
(Rack 2U)

03/ GPU Server

KH590
(8 GPU)

KH591
(4 GPU)

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Product Portfolio ≫ Target Market

Anywhere KTNF ON!

INDUSTRY 4.0

(IoT, Big Data, AI, Cloud, 5G)

Many Fields and Sites

① **Edge Computing**

Edge Gateway

Smart Home

Cloud

Edge Server

Data Center

AI·Big Data

Smart Factory

Security

IoT

④ **AI/ Deep Learning**

GPU Server

x86 Server

③ **Cloud, Datacenter, Virtualization**

② **Network Security**

Security Server

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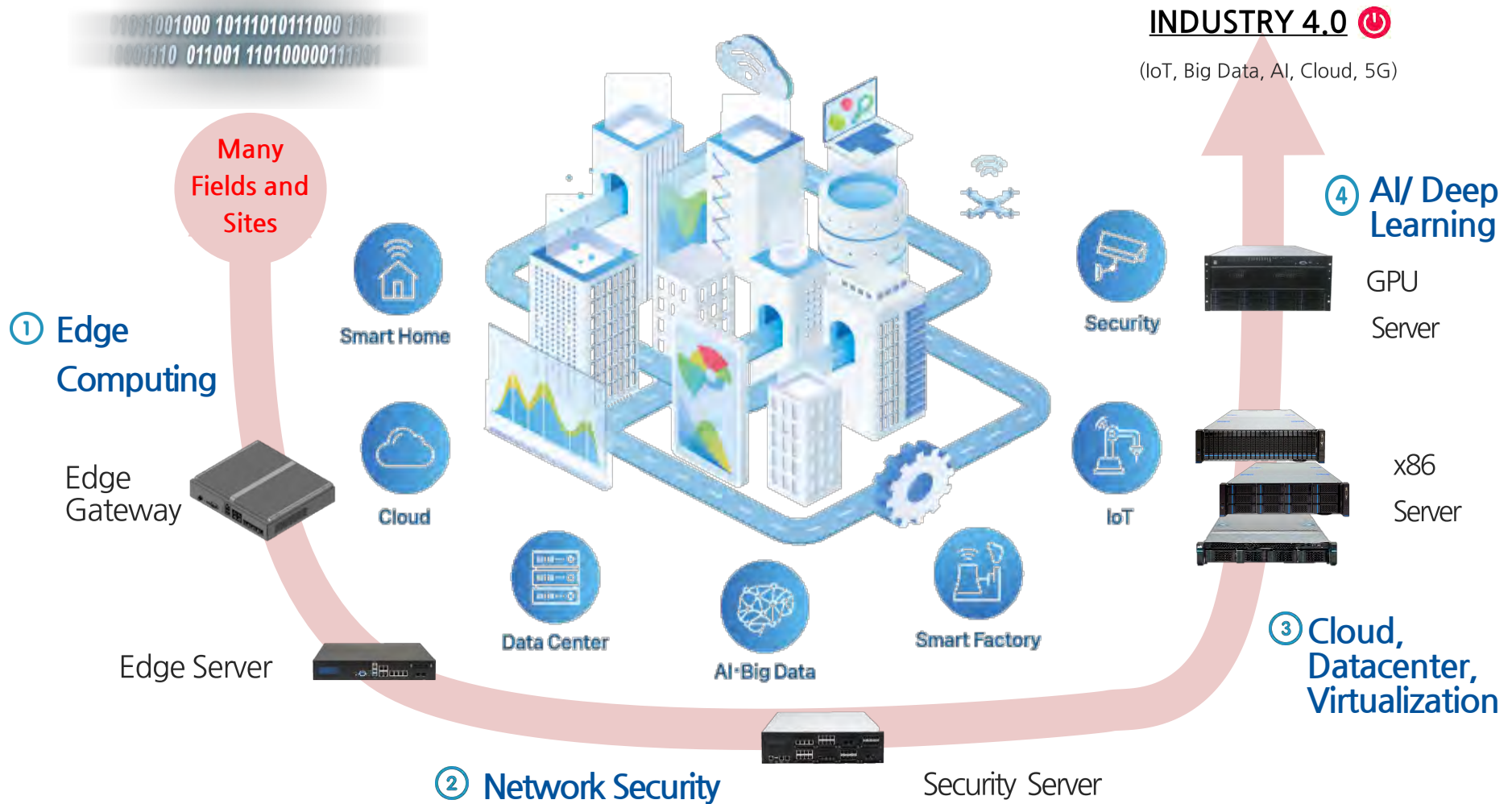
Product Portfolio ≫ x86 Server Roadmap

| 2021 | 2022 | 2023 | 2024 |

4Socket
(2U System)

(Develop → 2nd Half Launching)

TBD / Eagle Stream

Intel Xeon(Sapphire Rapids-SP)

2Socket
(2U System)
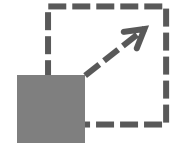
KR580S1 / Purely Platform

1st&2nd Intel Xeon(Skylake/Cascade-SP)

(MP)

1st Half

KR580S2, KR581S2 / Whitley Platform

3rd Intel Xeon SP(Ice Lake-SP)

(Develop → 1st Half Launching)

KR580S3 / Eagle Stream

Intel Xeon(Sapphire Rapids-SP)

KR580S3 / Eagle Stream

Intel Xeon(Emerald Rapids-SP)

2Socket
(1U System)

KR570S1 / Purely Platform

1st&2nd Intel Xeon Scalable Processors

(MP)

KR570S2 / Whitley Platform

3rd Intel Xeon SP(Ice Lake-SP)

(Develop → 1st Half Launching 예정)

KR570S3 / Eagle Stream

Intel Xeon(Sapphire Rapids-SP)

TBD / Eagle Stream

Intel Xeon(Emerald Rapids-SP)

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Product Portfolio ≫ Network Security Server Roadmap

	2021	2022	2023	2024

High-End (2U system)

K2731A / 2 Socket
Cascade Lake, DDR4, 8 x Edge Slot

K2741A / 2 Socket
(Develop) Sapphire Rapids

K2641A / 1 Socket
(Develop) Sapphire Rapids

Mid-Range (2U system)

K2541A / 1 Socket
Coffee Lake, DDR4, 8 x RJ45 + 4 x SFP + 1x Edge Slot

TBD
(Plan)

Low-End (1U system)

K1541A / 1 Socket
Coffee Lake, DDR4, 8 x RJ45 + 4 x SFP + 1x Edge Slot

K1551A / 1 Socket
(Develop) Alder Lake-S

K1131A / 1 Socket
Denverton, DDR4, 8 x RJ45 + 1x Edge Slot

K1141A / 1 Socket
(Develop) Parker Ridge

Entry (1U system)

K1221A / 1 Socket
Apollo Lake, DDR3 SoDIMM, 6 x RJ45 + option Card

K1231A / 1 Socket
(Develop) Alder Lake-N

x86 Server ≫ 2 Socket Server

x86 server with motherboard manufactured by KTNF's own design

| High Availability Servers | ➕ | High Performance Servers for the Data Center |

KR570S2

KR580S2 / KR581S2

01 Supports **Intel® latest 3rd generation Xeon® Scalable Processor**(Ice Lake SP)

02 Supports up to **32 DDR4 DIMM memory slots**(Up to 8TB, Max. speed 3200 MT/s)

03 Supports **non-volatile Intel® 2nd generation Optane Persistent Memory**

04 Supports **High-performance PCIe Gen4 NVMe SSDs**

05 Supports up to **2 GPGPU mounting** (only PCIe Gen4 GPU and KR580S2 Server)

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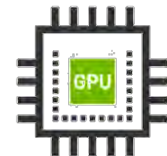
x86 Server ≫ 1 Socket Server

x86 server considering both scalability and economic feasibility for SMB

| 1 Socket_1U Server | ➕ | 1 Socket_2U Server | ➕ | 1 Socket_Tower Server |

KP320S1

KR320S1

KR330S1

01 Supports **Intel® latest Xeon E, Core i, and Pentium processors**

02 Supports **4(1U/Tower) or 8(2U) LFF drives and M.2 SSDs** for scalability

03 Supports **4 onboard 1Gbe ports and 1(1U) or 3(2U/Tower) expansion slots**

04 Supports **4 memory DIMMs and** speeds up to **2666 MHz**

05 Supports **dedicated IPMI ports** for management convenience

Econo-mics

Manage-ability

Scalabi-lity

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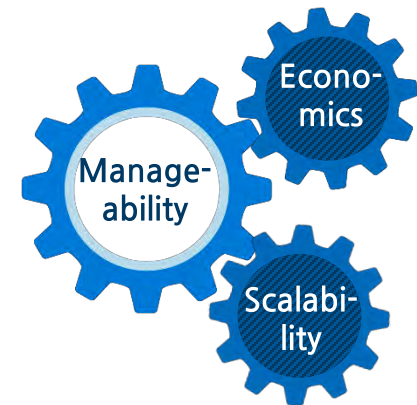
x86 Server ≫ Global Standard OS Compatibility

The only Korean server to complete the global OS compatibility test & certification

OS	Operating System	Support
Linux	Red Hat Enterprise Linux 7.6 / 7.7 / 7.8 / 7.9 / 8.0 / 8.3 / 8.4 / 8.5 Red Hat Enterprise Realtime 8.5	Red Hat (officially certified)
	SUSE Linux Enterprise Server 15	SUSE
	Ubuntu 18.04 / 20.04 / 22.04	Open Source
	CentOS 7.6 / 7.7 / 7.8 / 7.9 / 8.3 / 8.4 / 8.5	Open Source
Windows	Windows Server 2016 / 2019 / 2022	Microsoft
VMM	VMware ESXi 6.7 U1, U2, U3, ESXi 7.0 U3	VMware (officially certified)
	Windows Hyper-V 2016 / 2019 / 2022	Microsoft
	Red Hat OpenStack15 / 16	Red Hat (officially certified)
	Citrix XenServer 7.x / 8.2	Citrix
	NUTANIX Ready Hardware	NUTANIX (officially certified)
	Bizmerce pentaARK	Bizmerce

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x86 Server ≫ Innovative Product

The only Korean server vendor designated as an excellent R&D innovative product

✅ **Private contracts** are available in the public market **regardless of the amount**

✅ Purchased public institutions **receive additional points in year-end evaluations**

⟨Link⟩ https://ppi.g2b.go.kr:8914/portal/main.do

Korea Minister of Science and ICT

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x86 Server ≫ Certification

'18 Information Resources Technology Reference of x86 Server Validation	National Information Resources Service
HPC Hybrid Server (GPGPU) Validation	Telecommunication Technology Association
SPEC jbb 2015 SPEC CPU 2017	Standard Performance Evaluation Corporation
TPCx-AI Certified(Jun. 2022, World First) TPC-C Certified(Nor. 2018)	TPC™
KC Certified	National Radio Research Agency
Standby Power Certified	Korea Energy Agency
High-temperature reliability test(45°)	Korea Testing Laboratory

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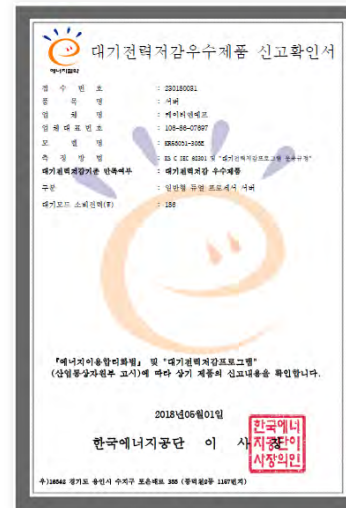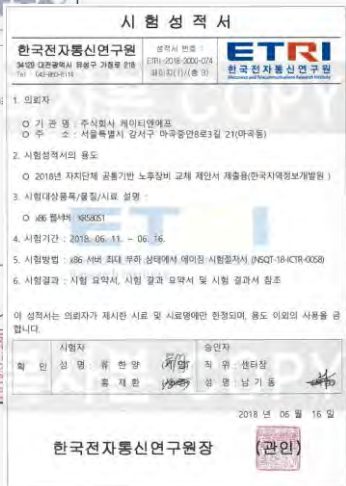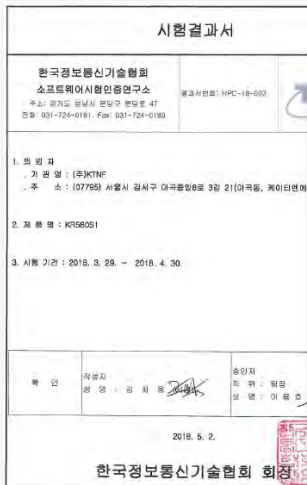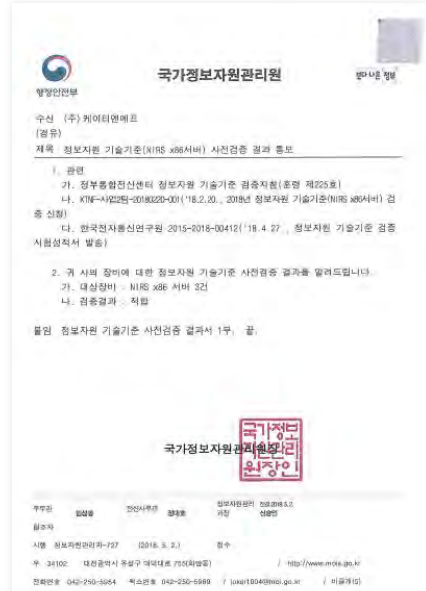
x86 Server ≫ Nutanix HCI Solution

The only Korean server company to obtain 'Nutanix Ready' certification
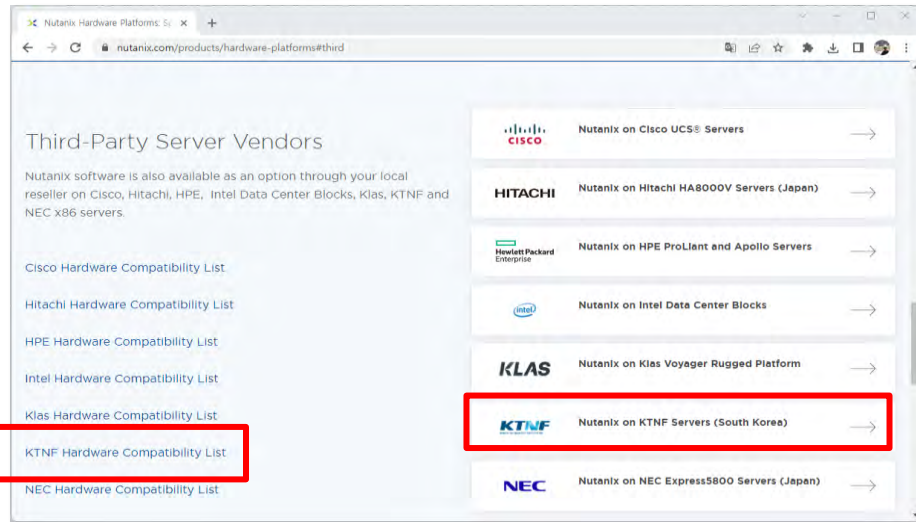
KR580 N Series
(308N, 312N, 224N and etc.)

01 Support a wide range of product models for your environment

02 Supports different forms of configuration depending on performance
- NVMe / All Flash / Hybrid(SSD + HDD)

03 Supports various NICs including 10GbE and 25GbE

04 Supports configuration of Boot Disk Raid for reliability(Raid 1)
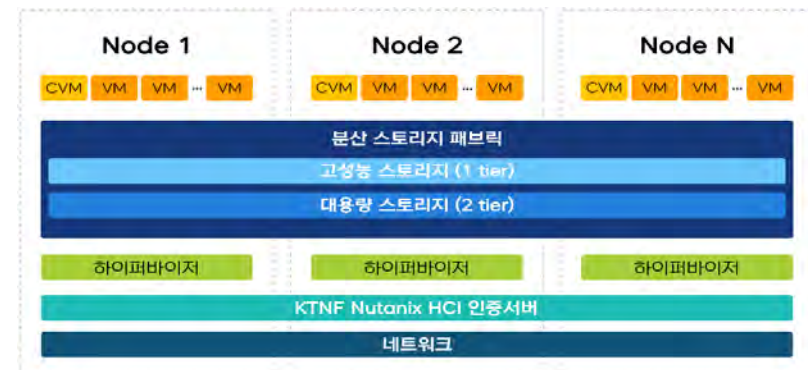
Network Security Server(#1)

Network security server systems with next-generation high-performance processes

High-performance security server with accelerators ➕ **Multiple forms of high-end security server**

K2731A

Security Server in a 2U Rack Form Factor with Intel Security Accelerator

K1541A

Security Server in a 1U Rack Form Factor with multiple network configurations
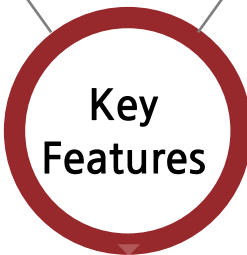
Key Features

- Intel Xeon Scalable Processor 2 Socket Server
- 50% performance improvement over previous generation processors (supports up to 56 cores)
- Built-in Intel security features to deliver high-performance IPSec, SSL, and encryption and compression
- Supports high computing power and fast secure packet processing
- Provides LAN bypass function (no service interruption)

- Supports Intel Xeon-E Processor or 8th Generation Coffee-lake Processor
- Configurable in various forms and optimized for required security performance
- Provides an on-board network interface and additional network slots (Optional)
- Optimized design considering density, performance and scalability
- Provides LAN bypass function

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Network Security Server(#2)

> **Network security server with excellent performance and competitive price**

Security server optimized for Mainstream market ➕ **Security server optimized for small businesses**

K2541A

Security Server in a 2U Rack Form Factor that supports a variety of processors depending on performance needs

🛡 Supports Intel Coffee Lake Xeon E, Core-i series and Pentium, Celeron Processors

🛡 Designed with a focus on flexible configuration and expansion

🛡 Supports up to 12 onboard LAN (8 x RJ45, 4 x SFP) plus 1 x NIC extra slot and 1 x PCIe slot (available for QAT and RAID Card)

🛡 Provides LAN bypass function (no service interruption)

K1226A

Secure Server in 1U Rack Form Factor with low power consumption and optimal processing power

🛡 Supports Intel Atom and Celeron Processors

🛡 Widely used as VPN / UTM in small office and retail market

🛡 Support for two low-power memory SoDIMMs (up to 8GB)

🛡 Onboard LAN allows basic network configuration (very economical)

🛡 Provides LAN bypass function (no service interruption)

Key Features

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GPU Server

High-performance GPU server for artificial intelligence and big data analysis

Equipped with up to 4 GPU accelerators ➕ **Equipped with up to 8 GPU accelerators**

3U — **Max 4GPU**

KH591S2

5U — **Max 8GPU**

KH590S1

01 Self-designed and built x86 motherboards
- Supports the latest Intel ® Xeon ® processors
- Supports up to 8 (based on KH591S2) and 24 (based on KH590S1) drives
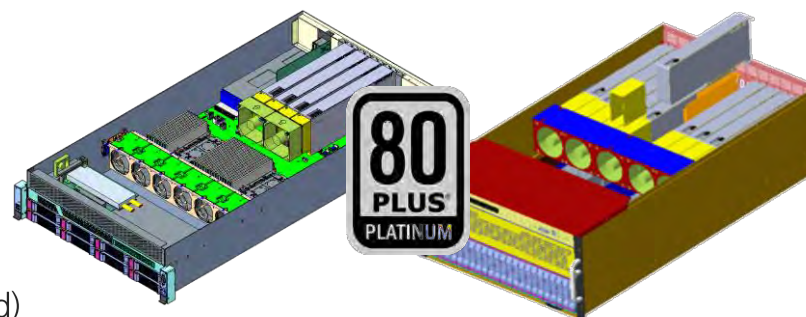- Supports '1+1 Redundant Power'

02 Designed considering multi-accelerator topology
- Up to 4 / 8 GPU accelerators per server (GPGPU card)
- Supports multiple accelerator topologies with PCIe switches
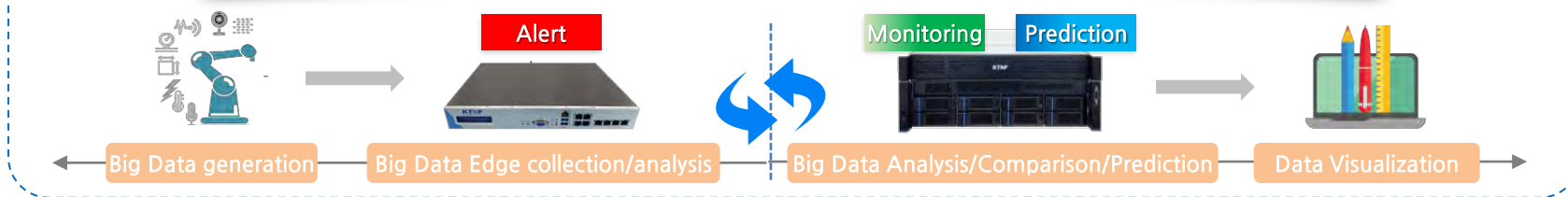
03 Design for cooling and temperature control
- Computing module placement and cooling structure considering GPU heat and air flow
- Temperature control technology using BIOS and BMC

80 PLUS PLATINUM

Hardware Monitoring

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Edge Server

The only Korean Edge Server optimized for various edge computing environments

Alert

Monitoring   Prediction

Big Data generation → Big Data Edge collection/analysis ⇄ Big Data Analysis/Comparison/Prediction → Data Visualization

Edge server applied to the smart factory market ➕ Rugged Edge Server(National Edge Computing Task)

(Develop)

K1131A(Edge Detector)
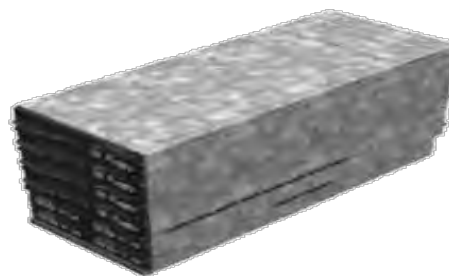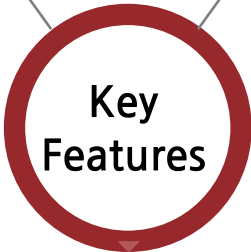
- Configuration optimized for on-site data detection, parsing, processing, and algorithm execution
- Intel High Performance Atom C3000 Processor
- Equipped with SATADOM for OS boot and 2.5" SATA HDD/SSD expandability

※ Best Practice – SK hynix(Data collection and analysis from equipment sensors in semiconductor mfg. lines)

KTNF Rugged Edge Server System

- KTNF Rugged Edge server that can withstand harsh industrial sites and environments
- Edge server that can be expanded and reconfigured according to the service environment
- Widely used in smart factories, MECs, smart cities and military environments

※ US Army MIL-STD-810G(Operation up to Max 55℃)

Key Features

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ODM Server

ODM server for continuously growing and increasing cloud companies

✅ **Global CSPs that operate hyper-scale data centers primarily adopt**
- Representative Cloud Service Provider : Google, Amazon, etc.
- Effect : Reduce costs by deploying servers optimized for business workloads

✅ **Recently, Korea CSPs are also pushing for the adoption of ODM servers**
- The evaluation of ODM servers through foreign manufacturers was suspended due to supply issues

KTNF ODM Server Use Case

| #1 - Samsung SDS ODM Server | ➕ | # 2 - SKT and SK Hynix ODM Server |

SDS GC1

✓ Developed for Cloud Service Deployment and HPC
✓ Optimized servers with proactive review of service workloads
✓ Eliminate global vendor dependence and reduce TCO

Media Server   Storage Server

✓ SKT : Media Server (Server for mass media service)
✓ SK hynix : Validate with the latest server-based storage

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Ⅲ Why KTNF & KTNF Server?

▶ 5 Strategy and Value to Customers

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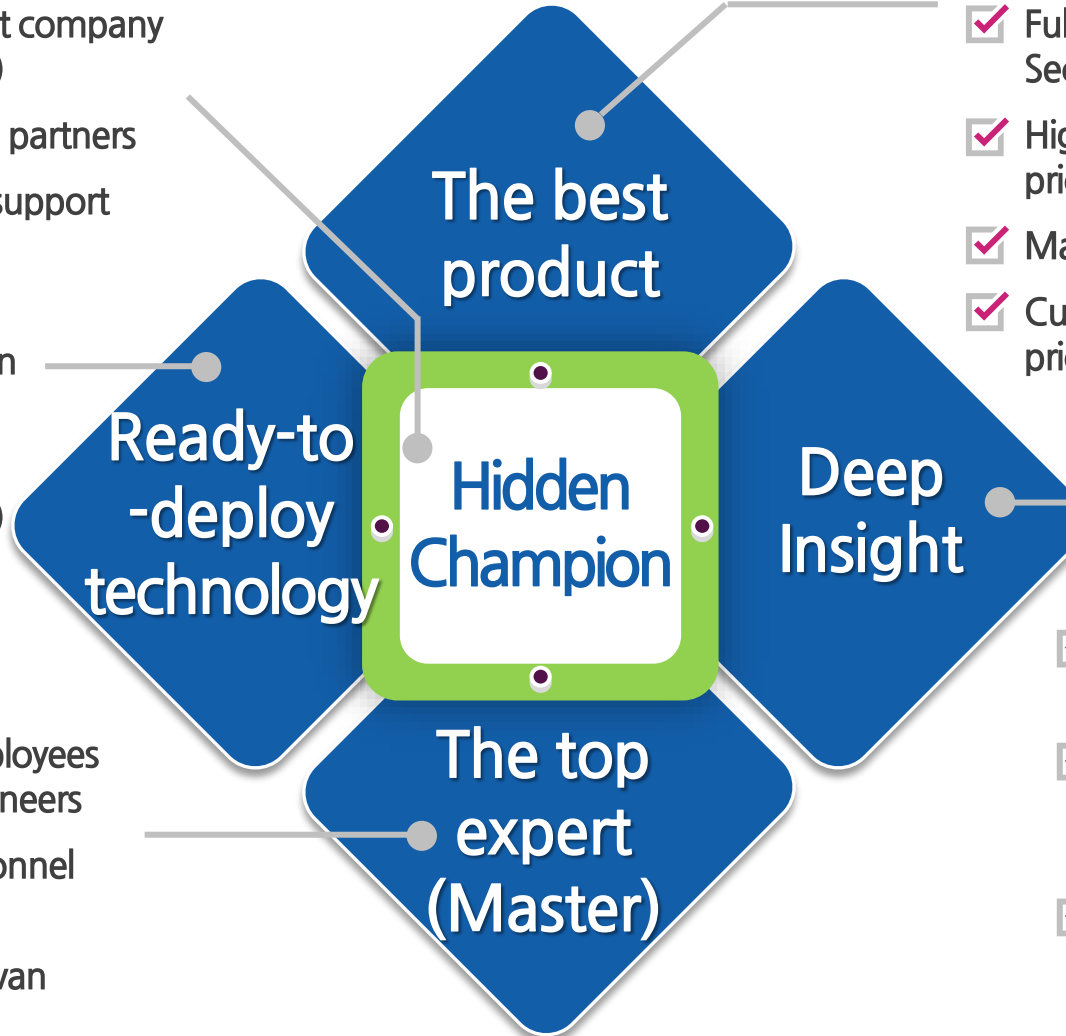
▶ Advantages of KTNF and PR video

5 Strategy and Value to Customers

> **Growing from a leader in localization of x86 servers to a global company**

- ☑ Korea server specialist company since 2001 (22 years)
- ☑ many references and partners
- ☑ systematic technical support

- ☑ Develops firmware on its own(BIOS, BMC)
- ☑ Global standard OS compatible (certified)
- ☑ Owns server-related patents (10+)

- ☑ Over 40% of all employees are professional engineers
- ☑ Owns HQ R&D personnel and facilities
- ☑ Design center in Taiwan

The best product

Ready-to -deploy technology

Hidden Champion

Deep Insight

The top expert (Master)

- ☑ Full server lineup(x86, N/W Security, GPU, Edge, ODM)
- ☑ High performance for the price
- ☑ Many features for the price
- ☑ Customer satisfaction for the price

- ☑ Analyze and predict the latest IT trends
- ☑ Establish a continuous product roadmap (R&D investment)
- ☑ Market & Customer Needs Survey

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IT ecosystem growing together

Continuously fostering the growth & mutual win-win of stakeholders related to the biz

Many partners, collaborators and stakeholders

- Development
- Customer
- Materials and components
- Distribution
- Semi-Finished product mfg. (manufacturing)
- Finished Product mfg. (manufacturing)

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KTNF ESG management practices

Environment (Green IT) — Social (Humanity) — Governance (Compliance)

Solar-powered HQ Bldg.

80Plus Platinum for All Products

Continuous social contribution & sharing activities

Build an Alliance

intel
NUTANIX KTNF
SHINSEGAE I&C

2022 KTNF Partner day

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Advantages of KTNF & PR video

Maximize business value through KTNF and respond to data center modernization

Anywhere KTNF ON!

온 세상 데이터의 CORE에 KTNF 서버를!
세계화의 꿈을 향한 도전은 결코 멈추지 않습니다

보안서버   Edge 서버

x86서버   AI/Big data 서버   어플라이언스 솔루션

Convenience
운영안정/편의성
수십년간 검증을 통과한
서버 운영관리 지원

Outcome
우수한 성능
광범위한 워크로드,
데이터센터 및 클라우드
적합한 고성능 서버

Reliability
고가용/신뢰성
주요 장치 이중화 설계
및 데이터 안정성 제공

Extension
유연한 확장성
고객의 요구사항에
따른 유연한 확장

Meet the "SMART" KTNF Server

S calability — Flexibility to expand according to customer needs

M anagement — Supports convenient operation mgmt(Self-developed Firmware)

A vailability — Redundant design of main H/W and online replacement in case of failure

R esilience — Process and respond flexibly to a variety of workloads

T ech support — Systematic and specialized technical support services

KTNF PR Video(Link to be added)

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Q&A