INNOVATION, LIFE IN FOCUS

211 Arion Vacuum Tube Amplifier
z84 Hi-End Speaker
Hi-Fi Component
Sound-Bar & Wireless Woofer
Multiroom Speaker
AI Agent
Smart Glass
Smart Audio-Visual Headphone

arion

211 ARION VACUUM TUBE AMPLIFIER

ARION

Timeless Design and Hancrafted by Experts

Classic Yet Next-Generation Tube Amplifier Circuit

Introducing the new 211 Vacuum Tube Amplifier, where classic craftsmanship converges with cutting-edge audio technology. This amplifier is equipped with two 211 output tubes, along with 6N6P and KT66 tubes serving as the pre-stage and drive stage.

Using 6N6P at the pre-stage, which is a gold-grid tube, we have designed a new paradigm for tube amplifiers.

At the output stage, we utilize two single 211 tubes and have implemented our own design concept, the Optimized Grid Choke Circuit (OGCC). This innovative approach represents the latest flagship paradigm in electric tube circuitry.

This OGCC reproduces a silkier high frequency and a more rigid contour in the low range, resulting in a significant enhancement of overall musicality that cannot be found in any other tube amplifiers on the market today.

Handcrafted to Perfection

By adopting point-to-point hardwiring, all internal assembly is done by an experienced cratftman manually. Each 211 amp is handcrafted, and all the components are hand picked and tested by experts in the tube industry.

To enhance the sonic quality, the tube level plate and transformer level plate are robustly machined and kept separate. While the outer appearance of the 211 amp as beautiful as possible, all the precision circuits are residing in the huge cage that is built like a tank. All these efforts are dedicated only to the one object of Arion, 'Bring the Music Back' idea.

Vacuum Tube Technology
Dynamic Sound Quality

The Power of High Voltage
Expertly Crafted for Perfection

Tubes	First and Drive Stage Tube : 6N6P & KT66 Output Stage Tube : 211 Damper diode : CV1835
Input Types	RCA (2~3 pairs), XLR (1 pair)
Output Power	12 ~ 15 W
Output Impedance	4 and 8 ohm
Input Impedance	More than 100k ohm
Input Range	0 ~ 2 Vrms
Frequency & Gain Response	20Hz ~ 20KHz - 1dB
Power Consumption	Below 270 W
Size (WxHxD)	450 x 250 x 265 mm
Weight	35kg

Z84 REFERENCE LOUDSPEAKER

Bring the Music Back
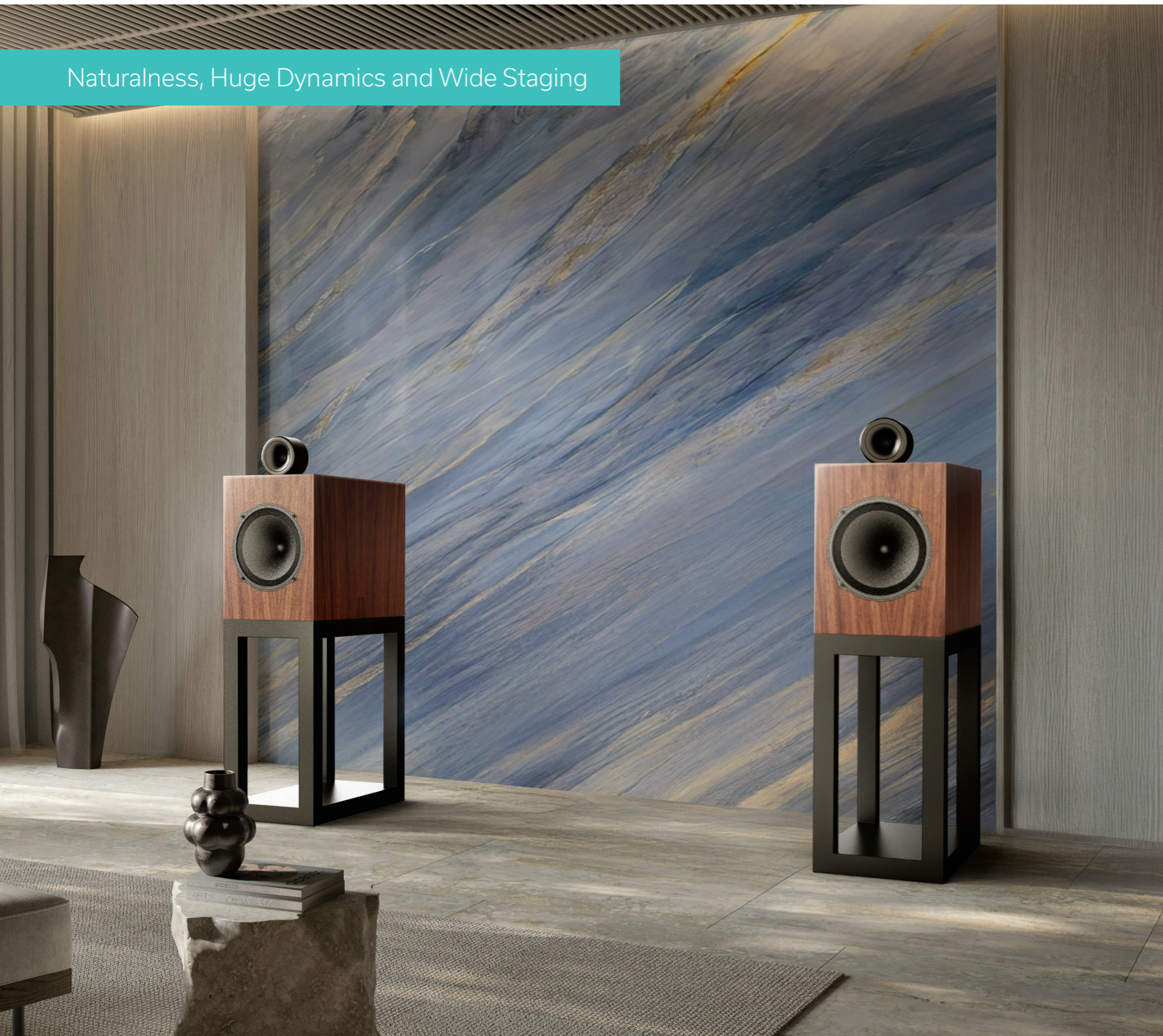
Creating speakers that well across all music genres is not an easy thing. Most speakers are limited to specific genreperforms of music. We have partnered with the renowned French legendary loudspeaker designer, Alain Pratali, to develop.

Naturalness, Huge Dynamics and Wide Staging

The Z84 2-way speaker system can play back any music, regardless of genre. To accomplish this requirements, we have developed the drivers from scratch. Driven by any well-designed amplification, you can not only hear the music as it was recorded but also experience the nuances of be-there staging to make you happy with the music. We designed this system to bring music back to you.

Key Features

The main driver, featuring a 9-inch mid-woofer and a 1-inch horn tweeter, has been entirely newly developed. The cone and surround, made of specially formulated paper, were designed based on precise calculations. They are coated with specialized chemical materials in multiple layers, enabling high-quality sound reproduction. Custom-made voice coils, magnets, and magnetic poles ensure subtle response to detailed signals and also allow for dynamic playback.

Specially designed crossover network components are sourced from Rike Audio (Germany), while aluminum foil coils midfrom Jentzen (Denmark). This sophisticated crossover ensures wide sound staging, dynamic range, and detail, making this 2-way speaker far more capable than expected. The cabinet features an open-back design that allows for natural sound reproduction across the range of 50 Hz to 20 kHz.

Impedance	6 Ohm
Amplifier requirement	10 ~ 150 W
Tweeter	1" with horn, custom designed by Alain Pratali
Woofer	9.5" custom designed
Sensitivity	95dB (1W 1m)
Frequency Performance	50Hz ~ 20KHz
Cabinet	tqwt short horizon type, specially designed for Z84
Terminal	WBT (Germany)
Size (W×H×D)	310 x 410 x 550 mm
Weight	21kg (speaker), 16kg (stand)
Finish	Oak, Rosewood High Gloss (special finish upon request)

Performance-Level Sound
High-Quality Sound Reproduction

Special Crossover Network
Natural Sound Reproduction

ARION

HI-FI
COMPONENT

Flawless Sound, Enveloping
the Space with Depth

GaN FET Class D Amplifier
Unparalleled Sound Quality

Customizable Sound Control
Design Follows Function

GaN FET Amplifier
Hi-Fi Component System

Cutting-Edge GaN FET Class D Amplifier

Utilizing the latest GaN FET technology, our Class D amplifier surpasses traditional Class A/AB amplifiers with exceptional efficiency and sound quality. Enjoy smooth, natural audio that flows effortlessly.

Unparalleled Sound Quality

Experience the pinnacle of audio excellence with powerful damping and superior linearity that transcend the boundaries of digital and analog technologies. Immerse yourself in pure, natural sound, close to the original.

Customizable Sound Control

Tailor your sound with adjustable Bass (100Hz) and Treble (10kHz) controls, offering a maximum adjustment of +/- 6dB. The high-fidelity Active EQ ensures personalized, perfect sound.

Design Follows Function

Our Hi-Fi component embodies the philosophy of internalizing external beauty. The robust aluminum chassis, matte finish, and precise grooves combine to offer both functionality and sophisticated aesthetics. Vintage-inspired buttons and controls add a touch of elegance to your space.

Hi-Fi AMP

Output Power	Stereo D-Class AMP (50W + 50W)	
Main Chipset	SoC - MLC3740, HDMI - EP92A2S4	
Audio Part	· PWM : Discrete (AD825), GaN Driver & Gan FET : Infineon · ADC : PCM1802 · Function : ARC, USB/BT/OPTICAL/Phono EQ (MM)	
Display	OLED	
Size (WxHxD)	234 x 86 x 344 mm	
Weight	6Kg	

SPEAKER

Driver Type	1" dome tweeter x 1, 5" woofer x 1
Impedance	4 ohm
Frequency Range	Tweeter 800Hz~20kHz Woofer 20Hz ~ 6kHz
Crossover	2.5kHz
Size (WxHxD)	150 x 233 x 299 mm (x 2pcs)
Weight	5.4Kg (x 2pcs)

SOUND-BAR

Rich Bass, Slim Space

Design Worthy of Your Home

ARION

Support

- Bluetooth / Optical Input
- **Dolby** ATMOS — Dolby Atmos / DTS HD
- HDMI 2.0 — HDMI 2.0 (eARC)
- Wireless Subwoofer Support(Optional)

Its concise and sophisticated design suits any space. (two color available)

3 Mode Sound Effect
EQ Tunning & Clear Sound

2 Color Available
Rich & Realistic Sound

Rich Bass to Boost Out Loud

3pairs of Mid-Woofer and tweeter transducers on the sides spread sound into the room, delivering surprisingly deep and rich sound.

Upward Firing Transducers

Two upward-firing speakers located on the top of the sound-bar reflect sound off the ceiling, creating realistic overhead effects.

Sound from Every Direction

Support 3 mode sound effects.

Stable and Balanced Sound

Applying Exclusive EQ Tuning to Improve the Balance of L/R

Crystal Clear Audio

Create a theater-level experience with clear audio and a wide sound stage.

Speakers	8 total speakers 2" Tweeter x3, 1.7" Full-range x2, 4.3" x 2" Woofer x3
Frequency response	70 - 20,000 Hz
Sound Effect	Bass Boost, X-Surround, Game Sound
Connections Types	HDMI 2.0 / eARC/ Optical / USB /Bluetooth
Size (WxHxD)	1020 x 66.5 x 105 mm
Weight	3.0kg

* Wireless woofer(BE-AW100) connectivity for base maximization

WIRELESS WOOFER

ARION

Breathe Bass into Every Corner

Supports Various Inputs
Poweful Bass

Wireless Deeper Bass Ready
Unibody Design

Supports Various Inputs

Expand user functionality options: wired, wireless, analog line-in, crossover, and phase control.

Unibody Design

With its seamless features, the subwoofer for your Soundbar is compact and has a timeless unibody design that matches your home decoration.

Powerful Bass

Designed to complement the Arion soundbar, the subwoofer brings the sound even deeper; With a passive radiator, you can feel deeper bass even in a compact design.

Wireless Deeper Bass Ready

Set the subwoofer in your desired location to enhance your sound- bar's audio to get strong, rich bass throughout the room.

Connections Types	Wireless Active Subwoofer
Optional Function	Analog Line In, Crossover, Phase
Output Power	160 W
Frequency response	50 - 150 Hz
Speakers	2 Total Speakers 6.5" Woofer x1 , 8" Passive Radiator x1
Size (WxHxD)	250 x 253 x 250 mm
Weight	7.2kg
Body Material	Wood (MDF)

MULTIROOM
SPEAKER

Every Room, Your Tune

ARION

Innovative Technology
Exceptional Sound Quality

Multi-Service Support
Seamless Streaming

Arion Multi Room Edition with WiiM Home OS

Multi-Service Support

Experience the Future of Innovation : Smart Speaker Technology Today

Discover the perfect blend of innovative technology and exceptional sound quality with the Arion Multiroom Edition, featuring WiiM Home OS. Enjoy unparalleled music control and customization.

Crystal-Clear Hi-Res Audio

Stream music in stunning clarity with support for up to 192 kHz /32-bit, delivering studio-quality sound for the ultimate listening experience.

Powerful Output

Equipped with a 5" woofer, 1" tweeters x 2, this speaker provides rich, detailed sound that fills any room with immersive audio.

Multi-Service Support & Seamless Streaming

njoy easy access to over 21 popular music services, including Spotify, TIDAL, Amazon Music, and more, all from the WiiM Home App or stream directly via Apple AirPlay2, Google Chromecast, Spotify Connect, and TIDAL Connect.
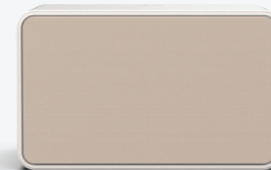
System Componets	Network Speaker
Connections Type	Wi-Fi, Bluetooth, Optical, Analog Line-In, eARC
Supporting Audio Format	FLAC / AAC / ALAC / WAV / WMA / OGG / MP3
Amplification Type	D-Class Amplifier
Frequency Response	45 – 20,000 Hz
Output Power	56W
Sound Effect	EQ 24 preset & 10Band Graphic EQ
Speakers	3 Total speakers 1" Dome Tweeter x 2, 5" Woofer x 1
Connectivity Interfaces	Wi-Fi , Ethernet, Bluetooth
Size (WxHxD)	265 x 163 x 165.5 mm
Weight	3.05 kg

Works with WiiM
TIDAL connect
Works with Apple AirPlay
Chromecast built-in
amazon music
Spotify

AI AGENT

Elevate Your Thinking with Arion AI

Unlock the Next Generation of AI Agent Services

Interactive & Personalized Agent
Multu-Modal UX Support

Customized Wake-Word for Agent
Comparison & Analysis of Various LLM Agent Responses

Lineup & Roadmap of XETT TM Integrated Devices.

XETT - Lite ™	▶	XETT - Standard ™	▶	XETT - Advance ™
Conersational AI Agent System for Audio only Smart Speaker & Smart Appliances		Multi-Modal UX AI Agent System for Smart Display Devices & Smart Wearable Devices		Interactive Robot Platform for Automotive & Robot
Voice Recognition		Multi-Modal UX LLM AI Agent		On-Device AI SoC Platform
LLM-Based Smart Speaker System		Generative AI & Personal AI Agent System		Self-Movement Interactive Reactive Motions/Sounds

Interactive Voice-Mode LLM AI Agent

LLM Model-Enabled interactive voice agent with OpenAI GPT, Anthropic Claude, Google Gemini and Meta Llama.

DOCTOR

EDNA

JOY

XETT®

Multiple AI Agents & Wake-Words Support

· EDNA - General Purpose AI Agent
· DOCTOR - Medical & Financial Research AI Agent
· JOY - Personal Lifecare AI Agent

Comparison & Analysis of LLM Agent Responses

A service that compares and highlights the similarities and differences between the responses of various LLM agents.

Multi-Modal UX Support

Weather information, music playback, and image creation and image sharing using Generative AI technology, Displays the requested service on the proper screen.

Personalized Agent Service

A service that organizes information about the user's daily activities a diary format through conversational interaction.
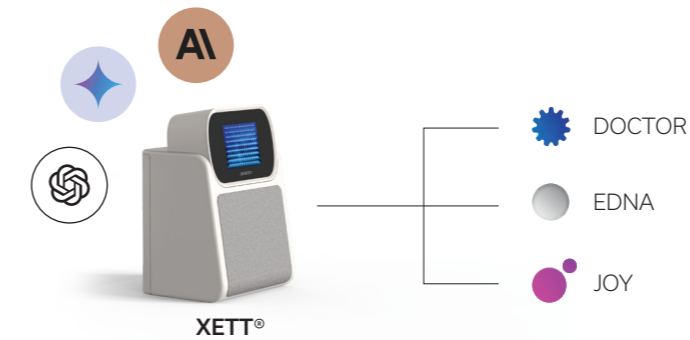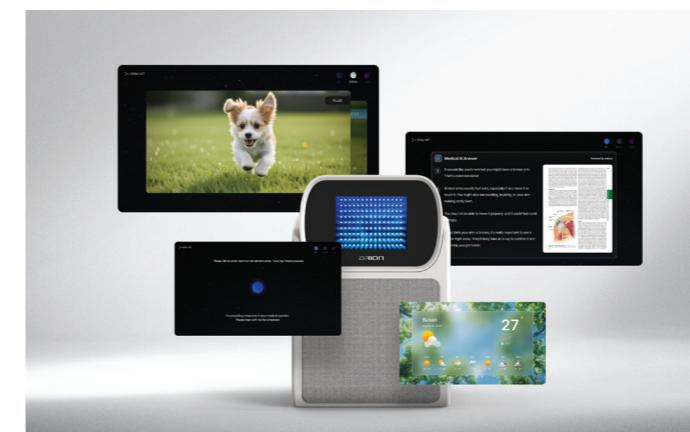

BUMJIN × EDNA NET

This product was developed in collaboration with Bumjin Electronics and EDNANET Inc.
It is built using EDNANET's XETT-Standard SoM (System-on-Module). For more detailed information on the module, please refer to the QR code below.

ChatGPT   Claude   Gemini   Meta

BE-IA100 | XETT Standard ™

Main Processor	Samsung Exynos 850 Octa core up to 2.0GHz ARM Cortex-A55
Memory / Storage	4GB LPDDR4 / 64GB eMMC v5.1
Connectivity	10/100Gbps + WiFi 2.4/5GHz + BT5.0Ethernet
Display	HDMI (v1.4 TYPE-A) MAX Resolution - FHD (1920x1080)
Audio & Mic	60W AMP Speaker, 2-Microphone

SMART GLASS

Slimer, Lighter, Smarter

ARION

Product Concept

Hybrid structure plastic lenses provides better form factor, power consumption, solid durability, thickness and image quality enabling next-level AR experiences.

Simple & Compact
Slim design compared to market products. Light weight of 80g range

High Contrast & Resolution
Brighter and clearer image than any other optical system.

Directional Sound Design
Sound quality of open ear type ear-phone.

Next Level of Image Quality
Designed to display as up to 45 degrees of diagonal Field of View (FoV). 100 inch view.

Slim Design
Clearer Image

Open Ear Type
Light Weight

Lens	LetinAR Pin-tilt type
Display	Micro OLED
Resolution	1920 * 1080 (per eye)
FOV	45°
Contrast	1 : 1000
Max Brightness	1000 nits
SoC	STM32L422(MCU) , LT7211B(DP2LVDS)
Audio	CM6533N chip, 2 channel micro-speaker
Function	Proximity sensor, Volume/Brightness control
Connection	USB-C

Speakers & Microphones

· Clear sound through ultra-high resolution speakers
· High-fidelity sound capture through dual microphones on both sides

Optical System

· Clear image quality of FHD OLED Micro display
· Wide field of view of about 50 degrees
· Birdbath optical system with high light efficiency

Rotating Display

· Display band above the user's head, rotating down in front of the eyes
· Delivering a fully immersive audiovisual experience, anytime, anywhere

Dual Camera

· Two cameras, one on each side
· Capturing and sharing 3D content in real-time

Perisphere wirelessly integrates all audio and visual functions of connected smart devices.

Output
to Perisphere's Displays & Speakers

Input
from Perisphere's Cameras & Microphones
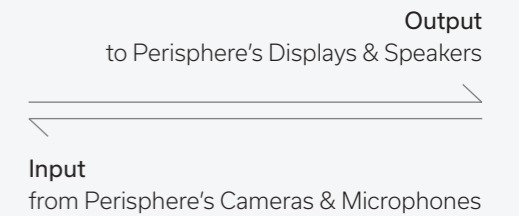
Use Case

Listen
Perisphere offers premium headphone quality and can be used solely as headphones.

Watch & Play
It also serves as a multi-sensory device for streaming OTT content and playing games.

Create & Share
It functions as a 3D action camera for capturing and sharing real-time with ease.

SMART AUDIO-VISUAL HEADPHONE

Headphones That Let You Listen, Watch, Create and Share in One Device.

BE-IG100

Visual Output	Left and right transparent displays of birdbath optics
Visual Input	Left and right cameras above the displays
Audio Output	Left and right speakers
Audio Input	Left and right microphones
Network	Bluetooth for audio input & output, Wi-Fi Direct for video input & output
Control	Touchpad on the ear cover surface
Charge	USB-C port

BUMJIN GROUP

Challenge and Innovation

ARION

Company At Glance

$400+ MILLION
Million Sales Revenue Yr. 2023

100% IN-HOUSE
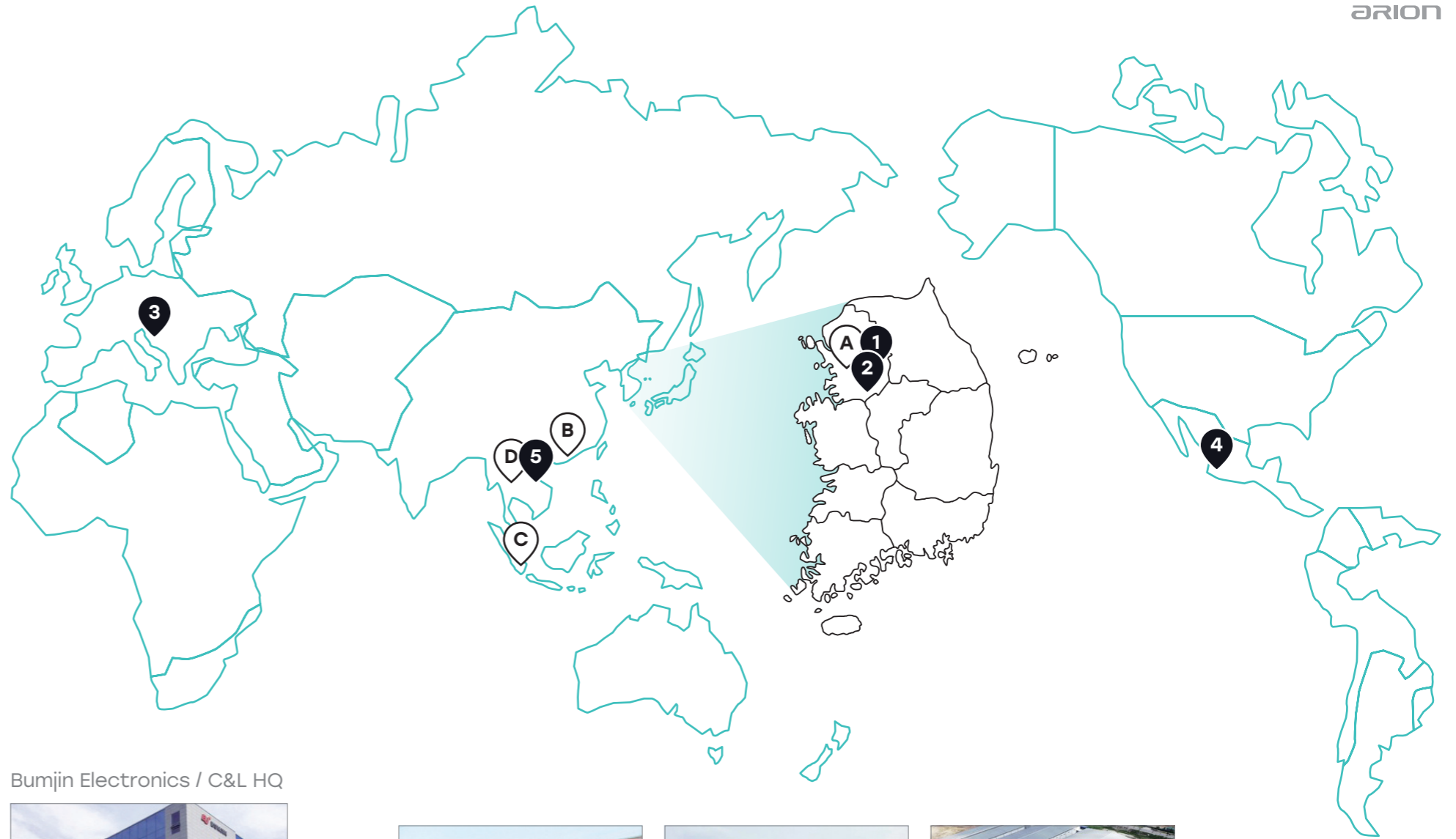Vertical integration facility for audio product

8 FACILITIES
Across manufacturing bases in global

80% OVER
Automation lines

Company	Bumjin Co., Ltd.
Found	1st. October, 1991
Chairman	Jung-Kil Park
HQ	217, Saneop-Ro 155 Beon-Gil, Gwonseon-Gu, Siwon-Si, Gyeonggi-Do
Business	Consumer Electronics (Audio Product, Speaker Unit, IT Product etc.), Mold Manufacturing, Injection, etc.
Employee	3,565 (Include Global Manufacturing Base)
Subsidiary	Korea, China, Vietnam, Indonesia, Hungary, Mexico

Bumjin Electronics / C&L HQ

A. Korea (Suwon)

Core Business	R&D, Sales, Admin
Size	8,316m²

B. China (Huizhou)

Product	Spk Unit
Size	5,640m²

C. Indonesia

Product	TV Spk, Car Parts
Size	31,503m²

D. Vietnam (Quang Ninh)

Product	Audio Set, Sound Bar
Size	49,195m²

Bumjin I&D HQ

1. Korea (Suwon)

Core Business	Manufacturing mold, Mold design
Size	6,186m²

2. Korea (Ansung)

Product	Injection Parts (Car, VD, etc.)
Size	24,250m²

3. Hungary (Heredi)

Product	Injection Parts (Home Appliances)
Size	45,048m²

4. Mexico (Tijuana)

Product	Injection Parts (Home Appliances)
Size	37,500m²

Associate Company: Jinseong

5. Vietnam (Quang Ninh)

Product	Injection Parts (TV TOC, Soundbar, Audio)
Size	30,000m²

BRING HAPPINESS
TO THE CUSTOMERS

Like in the past when we reached our goals, deemed by others to be impossible, Bumjin will incessantly step towards the future. Moreover, Bumjin will strive to be a company that not only pursues profits but one that contributes to the global society as well.

VISION 2025
Bumjin grows through the companionship of customers and our staffs.

Creative & Life
Always by your side, Bumjin Electronics

· Professional ODM,OEM,EMS
· Sound Bar
· AI Speaker
· AV Receiver
· Smart Glass
· All kinds of audio product

A Partner For Your Life Style
Every moment in your life

TONN
Interior Mud Light Bluetooth Speaker,
Smartphone Charger,
LED Stand Bluetooth Speaker

ARION
Vacuum Tube Amplifier,
Hi-End Speaker,
Mini Hi-Fi Component,
AI Agent

Business Area

Electronics

House Brand

Mold / Molding

Startup Support Program
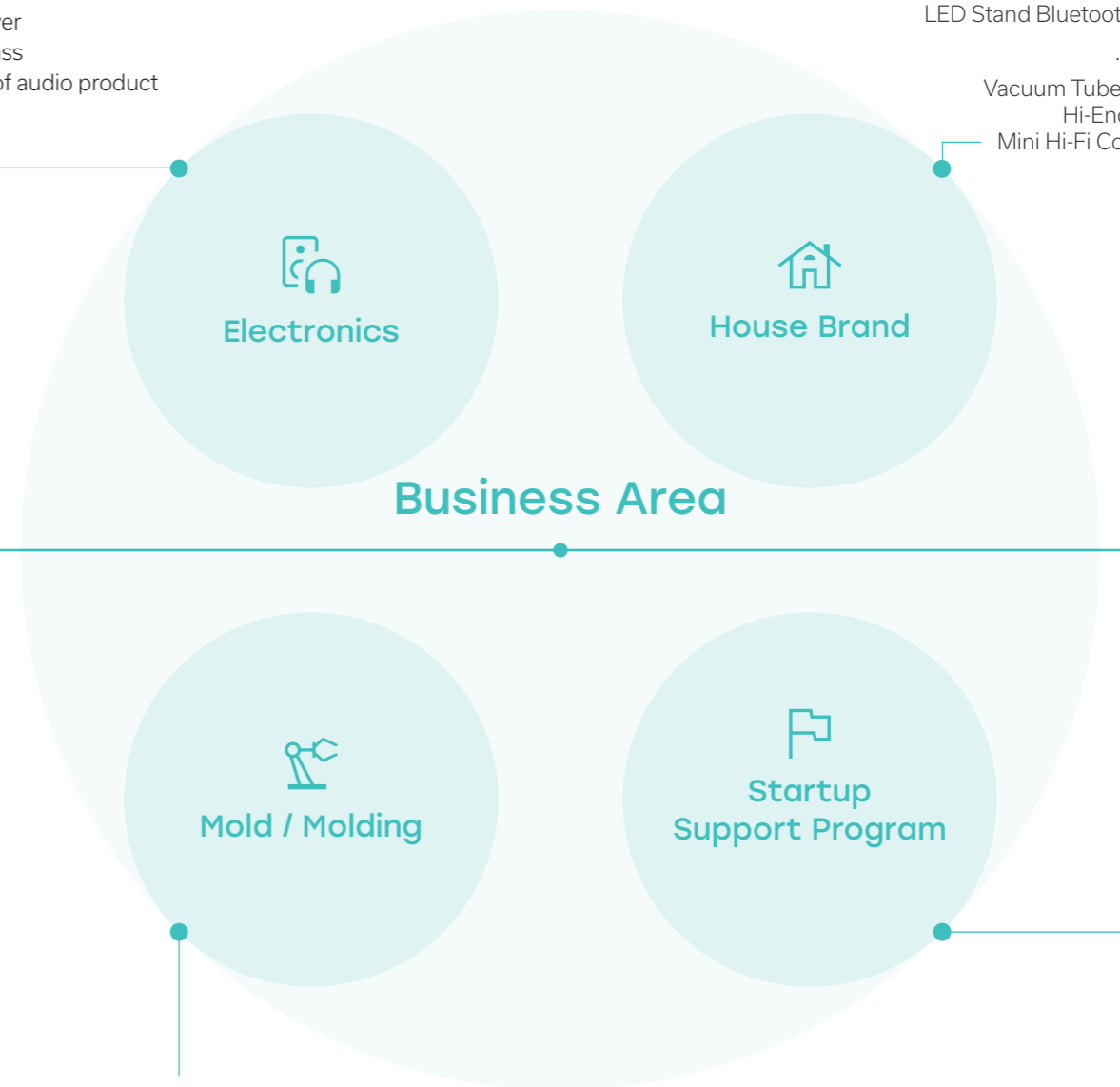
Customer Satisfaction
High-value and high-tech solutions to the customers

· General Injection Molding
· Special Injection Molding (High gloss, double-shot injection, etc.)
· High-Value and High-Tech Mold/Molding Solutions

Start, Build, Grow Together
Bumjin supports your ideas

· comprehensive production support
· Mold Creation / Injection Molding
· Assembly / Production of Finished Products
· In advanced product developments incorporating future technologies

ESTABLISHMENT
Business Foundation

GROWTH
World-class Production Capacity

LEAP
New Business and Market Development

1991
Established Bumjin Industrial

1992
Registered as a Samsung Electronics Approved Company

2005
Established Bumjin Industry's Injection Business division

2007
Receiving Certificate of Bumjin Industry's Annexed R&D Center

2008
Established Tianjin Bumjin in China (for Large Injection)

2009
Established Bumjin Hungry

2010
Established Bumjin Indonesia (PT)

2011
Awarded $5M Top Export Company

2013
Established Suwon Factory

2014
Establishment of Hungary Bumjin Electronics

2015
Launch House Brand "Tonn" Speaker

2016
53th Trade Day Awarded the Trophy $ 30 Million Export

2017
Construction of New Bumjin Headquarters Building

2018
Established Bumjin America (for Large Injection)

2018
Established Multi Media R&D Lab (Develop for Sound bar)

2019
Established Bumjin Vietnam

2020
Begin production in Vietnam

2023
Produce AV Receiver

INNOVATION, LIFE IN FOCUS

Creating bundant values through
continuous challenges and innovations.

BUMJIN × **GEEKS LOFT**
eDNA NET

Brochure   Product Video