Omega AI+ Key Features Background

Omega AI+ represents our most advanced hearing technology family ever, built on the revolutionary G4 Gen AI Neuro Processor and proprietary Quad DNN Architecture. Together, these innovations are designed to deliver faster, more intelligent, and more natural hearing while extending advanced AI capabilities, wellness features, and connectivity across a broader product portfolio.

Notable Features

Sound Quality & AI Performance

Quad DNN Architecture

- **Breakthrough Quad DNN Architecture** utilizes four specialized deep neural networks working together in real time and designed to optimize speech understanding, environmental awareness, listening comfort, and sound quality.
- Inspired by how multiple neural systems in the human brain process information, enabling faster and more natural hearing experiences.

G4 Gen AI Neuro Processor

- Neural network intelligence built directly into the silicon.
- Processes sound up to **2.7 times faster than the slowest leading competitor device evaluated at the time of testing**.^1
- Supports advanced AI processing while maintaining exceptional power efficiency.

DNN Dual Compressor

- **World's first DNN Dual Compressor**.^2
- Designed to intelligently balance conversational clarity with natural sound quality for a more enjoyable listening experience.
- **100% of users noticed fewer artifacts** compared to previous technology.^2

Enhanced Edge Mode

- Designed to deliver real-time solutions for complex listening environments.
- Can be enabled to activate automatically when the hearing aids powers on.
- Improves listening effort and delivers greater listening comfort in challenging environments.^3

Hardware & Product Family

Rechargeability and Durability

- Up to **51 hours of battery life**.
- Waterproof device design.
- All-new StarLink Charger 3.0 with redesigned user experience and charging indicators.

Expanded Product Portfolio

- Complete hearing technology family spanning RIC, rechargeable and non rechargeable custom options, and custom non-wireless products.
- Expanded access to premium AI technologies across additional form factors.

DNN 360 for All

- Proprietary DNN 360 technology now available in a variety of products, including customs.^5
- Proven to decrease listening effort compared to previous directionality technology.^5
- Designed to improve speech intelligibility and enhance spatial awareness.

Custom Non-Wireless Products

- Accessible through the T2 Remote app, Automatic Edge Mode dynamically adapts to changing environments.
- Ultra-high-frequency tone detection system enables advanced AI capabilities in IIC devices.
- Provides premium AI performance in Starkey's smallest custom devices.

Connectivity

Auracast™ Compatibility

- Supports Auracast broadcast audio technology.

- Enables access to compatible public and personal audio broadcasts while maintaining awareness of surrounding conversations and environments.

Wellness Features

Sleep Quality Tracking (U.S. only)

- **Industry-first feature** within hearing technology.
- Provides nightly sleep scores and sleep quality insights.
- Tracks sleep stages including awake, light, and deep sleep.
- Provides body-position insights during sleep.

Hearing Aids Left Behind

- **Industry-first convenience feature** in the My Starkey app.
- Alerts users when hearing aids have been unintentionally left behind.
- Delivers meaningful notifications that help improve confidence and device management.

Omega AI+ Key Features Cheat Sheet

- G4 Gen AI Neuro Processor with neural network built directly into silicon
- Breakthrough Quad DNN Architecture
- World's-first DNN Dual Compressor
- Up to 2.7x faster processing than a leading competitor device tested at launch^1
- Enhanced Always-On Edge Mode with DNN-powered comfort improvements.^3
- Up to 51 hours of battery life
- DNN 360 technology in variety of styles.^5
- Automatic Edge Mode in custom non-wireless products
- Auracast™ broadcast audio compatibility
- Industry-first Hearing Aids Left Behind alerts
- Industry-first Sleep Quality Tracking

References

1. Shahar, A., Heuermann, H., & Tan, C. (2026). *Integrated Intelligence without Compromise.* Starkey White Paper.

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3. Halvorsen, S., Liu, J., Xu, J., & Marquardt, D. (2026). *Edge Mode Evolution: Clinical Evidence for DNN-Enhanced Listening Comfort and User Preference*. Starkey White Paper.
4. Starkey Internal Report (2026), unpublished.
5. Kadetotad, D., Marquardt, D., Schepker, H., Liu, J., & Halvorsen, S. (2026). *DNN 360 for Dual Microphone Custom Devices*. Starkey White Paper.