



The NuPrime IDA-9 is an ultra-compact integrated amplifier delivering powerful, high-resolution audio with precision and finesse. Its ultra-low-noise GaN power supply ensures exceptional clarity, efficiency, and speed. The IDA-9 outputs 200W x 2 @ 8Ω, supports PCM up to 384kHz and DSD256, and offers USB, Coaxial, Optical, Analog inputs, plus an expansion port for Bluetooth or Wi-Fi modules.

IDA-9

USER'S MANUAL

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FCC Notice - Declaration of Conformity Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Only peripherals complying with the FCC class B limits may be attached to this equipment.

Changes or modifications made to this equipment, not expressly approved by us or parties authorized by us could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

EU Declaration of Conformity

CE Hereby, NuPrime Audio, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

The manufacturer of this product is NuPrime Audio, Inc., 30 N Gould St. Ste N, Sheridan, WY 82801, USA.

The Authorized Representative for EMC and product safety is NuPrime Audio, Inc., 30 N Gould St. Ste N, Sheridan, WY 82801,

For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

For Customers in Europe



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The

recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Safety Instructions

There are two categories of Safety Instructions included in this manual:

- Product Warnings, (i.e., what must never be done to assure avoiding those hazards that
- could cause bodily injury or property damage); and
- User Directions (i.e., what must always be done to assure the safe use of your device).

The Safety Instructions contained in this manual have been categorized in accordance with the seriousness of the potential hazards through the use of Signal Words. Those Signal Words, and their intended meanings, are as follows:

DANGER: Indicates that a failure to observe the Safety Instructions could result in death or catastrophic bodily injury.

WARNING: Indicates that a failure to observe the Safety Instructions could result in serious bodily injury.

CAUTION: Indicates that a failure to observe the Safety Instructions could result in minor bodily injury or property damage.

NOTE: Designates important information that relates to activities and/or conditions that might result in loss of data and/or damage to your device.

Safe Use and Operation of Your Device

This equipment emits stray RF energy and will interfere with the reception of signals by airborne electronic navigational devices or medical devices. Do not operate this equipment near any sensitive medical devices.

WARNING: Use only grounded AC power cords.

Always immediately disconnect the power to the equipment in the event the device emits an unusual odor or sound or generates smoke.

WARNING: Never attempt to disassemble, repair or make any modification to your device. Disassembly, modification or any attempt at repair could cause bodily injury or property damage, as well as damage to the device itself.

WARNING: Your device is not a toy. Never allow children to play with your device. Misuse, rough or improper handling of your device by children could result in serious bodily injury for any of the enumerated safety warnings in this manual. In addition, always keep all accessories and components out of the reach of small children as small parts might present a choking hazard. Seek immediate medical attention if choking occurs or if any small part has been swallowed.

CAUTION: Never raise the sound volume level too high when using your device with earphones. An excessive sound volume level could cause damage to your hearing.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to moisture or water.

Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read all the instructions before connecting or operating the component.

Keep this manual so you can refer to these safety instructions.

Heed all warnings and safety information in these instructions and on the product itself. Follow all operating instructions.

Do not use this unit near water.

You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the unit.

Do not place the unit on a bed, sofa, rug, or similar surface that could block the ventilation openings. If the unit is placed in a bookcase or cabinet, there must be ventilation of the cabinet to allow proper cooling.

Keep the component away from radiators, heat registers, stoves, or any other appliance that produces heat.

The unit must be connected to a power supply only of the type and voltage specified on the rear panel. Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable.

Do not route the power cord where it will be crushed, pinched, bent, exposed to heat, or damaged in any way. Pay particular attention to the power cord at the plug and where the cord exits the back of the unit.

The power cord should be unplugged from the wall outlet during a lightning storm or if the unit is to be left unused for a long period of time.

Immediately stop using the component and have it inspected and/or serviced by a qualified service agency if:

- The power supply cord or plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit shows signs of improper operation.
- The unit has been dropped or damaged in any way

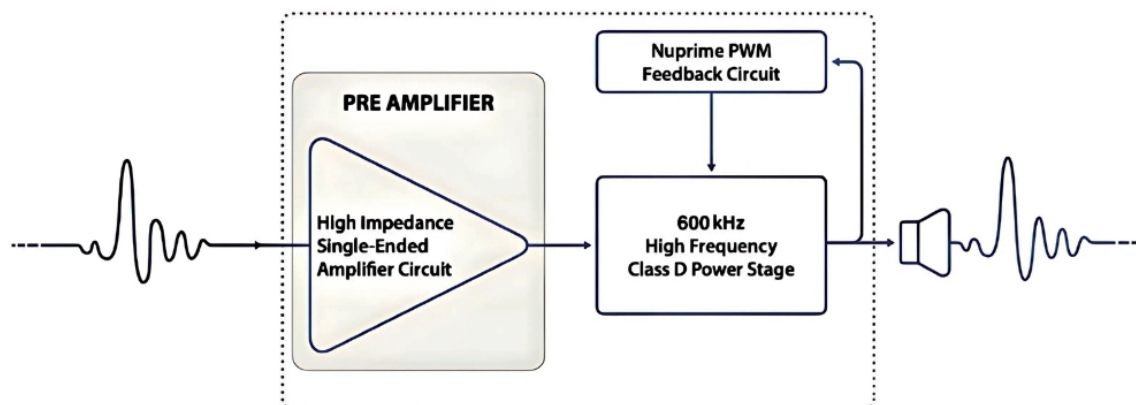
Description

Building on the legacy of the award-winning IDA-8 — honored with two Product of the Year Awards and a coveted Golden Ear — the NuPrime IDA-9 takes this iconic hybrid Class A+D amplifier to new heights. Retaining the IDA-8's spacious, transparent, and luxuriously textured sound, the IDA-9 doubles the amplifier's RMS output power while maintaining the same compact form factor, delivering an even more dynamic, effortless, and refined listening experience.



The IDA-9 is designed around the proven IDA-8 architecture with significant enhancements throughout. Its refined Class A input stage and upgraded Class D switching MOSFET circuit now operate at 600 kHz, enabling high-resolution audio performance while running cooler and more efficiently — reducing operating temperature by 30% for greater headroom and natural sound reproduction. NuPrime’s revolutionary ultra-low-noise GaN power supply employs a dual-phase interleaved GaN Power Factor Correction circuit, an advanced topology that ensures smoother power delivery and minimal ripple current compared to traditional single-phase designs. Beyond the PFC stage, new-generation GaN semiconductor modules drive a symmetrical dual supply system that provides balanced positive and negative voltage rails for the amplifier’s differential circuit. Together, these twin GaN power blocks deliver a total of 500 watts with peak current capability of 20 amperes, supporting an impressive 200 watts (RMS) per channel of dynamic music power at 8 ohms. This GaN-based power architecture achieves unmatched thermal efficiency and ultra-clean power delivery, producing a deep black background, exceptional channel separation, and breathtaking clarity.

The result is a sound that’s neutral yet rich in detail, with excellent layering, tight bass, and an open, extended high end — all while preserving the IDA series’ signature compact elegance and setting a new benchmark for modern integrated amplifier design.



Key Features

1, Class A Input Stage



- Ultra-Linear Class A Module (ULCAM) – The IDA-9's revolutionary ULCAM technology combines the audiophile-quality sound characteristics of Class A amplification with the dynamics, speed, and efficiency of Class D operation. This hybrid approach delivers the best of both worlds without traditional compromises.
- Nichicon KZ MUSE Input Coupling Capacitors – Specifically chosen for their ability to deliver neutral, pure sound with clean transparency, these capacitors contribute to excellent layering, tight bass response, and penetrating high-frequency reproduction.
- OS-CON Capacitors in Single-Ended Class A Modules – These renowned capacitors are celebrated for their warm, natural tone, superb high-frequency detail, and exceptional longevity. They ensure stable, high-quality signal coupling and consistent audio performance over extended periods.
- Ultra-Low-Noise Input Stage – The input stage employs ultra-low-noise JFETs (Junction Field-Effect Transistors) to achieve the lowest possible noise floor, ensuring pristine signal integrity from the very first stage of amplification.

2, Advanced Class D Switching Circuit

The high-performance Class D switching MOSFET circuit operates at 600 kHz, enabling high-resolution audio performance while reducing operating temperature by 30%. This thermal efficiency allows for greater headroom and produces a more effortless, natural sound reproduction.



3, Premium Component Selection

Custom Power Capacitors – Engineered specifically for Nuprime, these capacitors provide enhanced instantaneous current delivery, ensuring the amplifier can respond immediately to dynamic musical demands.



WIMA and EPCOS Premium Audio Capacitors – The IDA-9 incorporates 14 high-end capacitors from the WIMA MKP and EPCOS MKP series throughout the circuit for power rail bypassing. These premium components, typically found in high-end audio equipment, deliver sweet, full-bodied tonal character with fast response, low loss, and naturally balanced sound.

4, DAC Performance

The integrated DAC supports high-resolution formats including USB PCM 384 and DSD256, with additional capability for decoding DoP (DSD over PCM) formats via coaxial and optical inputs. Native DSD playback is supported through both ASIO2.1 and DoP methods.

5, Connectivity and Control

Four digital inputs and one stereo analog input, accommodating virtually any source configuration.

6, Precision Volume Control – Features individually adjustable volume on each input for precise level matching of sources, with full microprocessor control and memory retention. Volume adjustment is available in 99 precise 0.5dB increments for exact level setting.

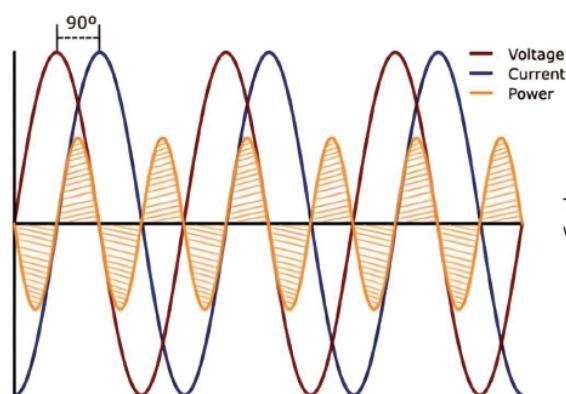
7, USB Audio Compatibility – Includes dedicated NuPrime device driver software for Windows systems, while Mac users can utilize standard driver software for plug-and-play operation.

8, Custom NuPrime isolation feet eliminate vibration transfer, ensuring optimal performance by preventing mechanical interference with sensitive audio circuits.

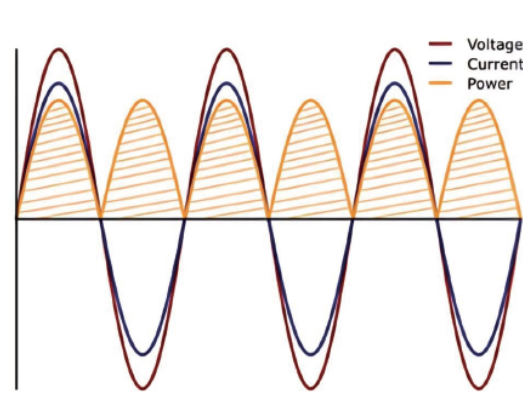
9, Energy Efficient Operation – The IDA-9 maintains very low power consumption in standby mode, reflecting modern energy-conscious design principles.

10, Includes a comprehensive remote control for convenient operation of all functions and settings.

Revolutionary GaN Power Supply Technology Advanced GaN Power Factor Correction



The voltage and current diagram without power factor correction.



The voltage and current after power factor correction.

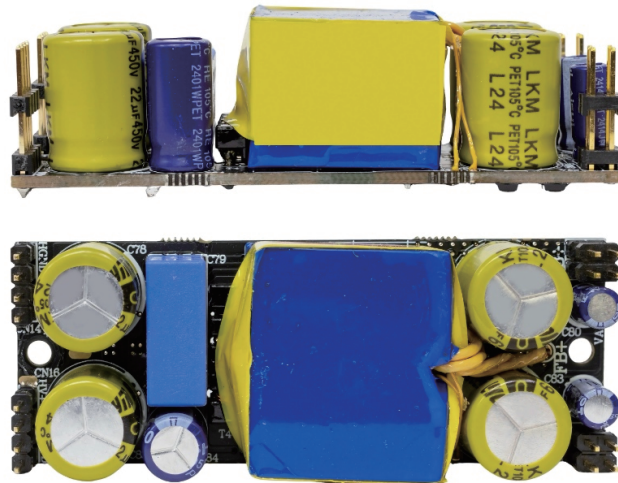
At the heart of the IDA-9's power supply architecture lies a sophisticated dual-phase interleaved GaN Power Factor Correction (PFC) circuit. This innovative design approach delivers exceptional voltage regulation while maintaining minimal noise levels and achieving ultra-high efficiency. The entire PFC module is housed within a remarkably compact $75 \times 30 \times 25$ mm enclosure, yet delivers an impressive 600 watts of output power.



The dual-phase interleaved topology represents a significant engineering advancement, allowing for smoother power delivery and reduced ripple current compared to traditional single-phase designs. This results in cleaner power conversion and improved overall system performance.

Gallium Nitride High Frequency High Efficiency Power Module (GaN HFHFPM)

Beyond the PFC stage, the IDA-9 employs new-generation GaN semiconductor modules for the critical power conversion stages that supply the amplifier circuits. These modules showcase the remarkable capabilities of GaN technology, with each individual module maintaining the same compact $75 \times 30 \times 25$ mm footprint while delivering up to 250 watts of output power and instantaneous peak current capabilities of up to 10 amperes.



The choice of GaN semiconductors over traditional silicon-based solutions enables this extraordinary power density while maintaining excellent thermal characteristics and switching efficiency. This translates to reduced heat generation and improved long-term reliability.

Symmetrical Dual Supply Architecture

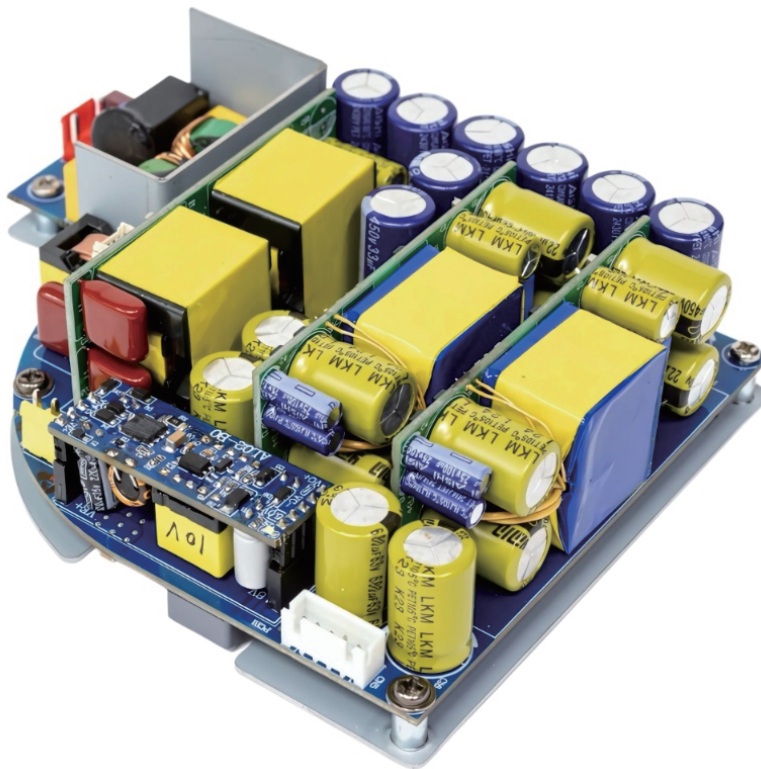
The IDA-9's power supply design incorporates two independent GaN power blocks configured to create a symmetrical dual supply system, providing both positive and negative voltage rails. This balanced approach ensures optimal performance for the amplifier's differential circuit topology.

Combined, these twin power blocks deliver a total output of 500 watts with peak current capability reaching 20 amperes. This substantial power reserve enables the IDA-9 to achieve an impressive 200 watts per channel of music output power, ensuring dynamic headroom for even the most demanding musical passages.

Engineering Excellence Through Miniaturization

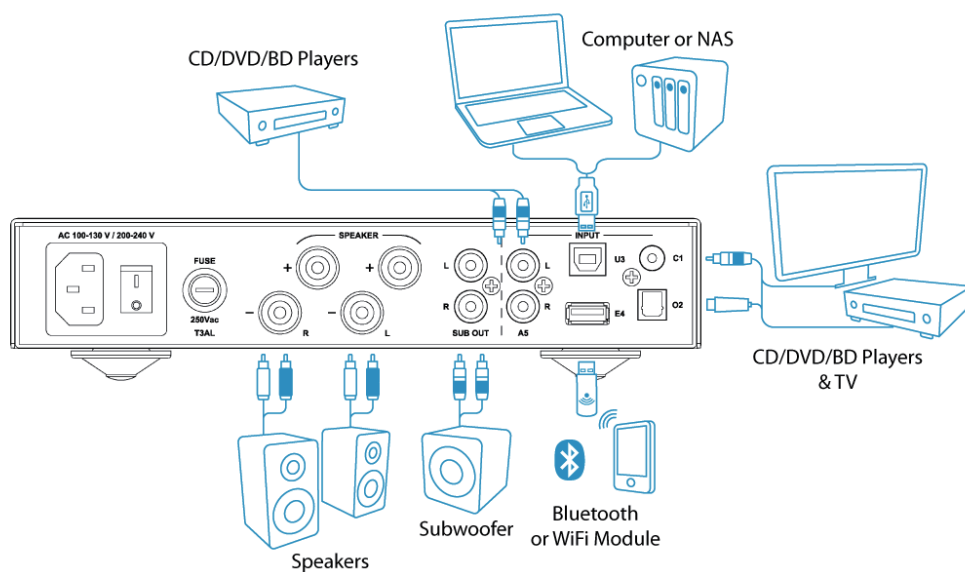
Perhaps most remarkably, this advanced power supply system delivers performance equivalent to traditional transformer-based power supplies while occupying only one-fourth the physical space and weighing merely 20% of conventional designs. This dramatic reduction in size and weight opens new possibilities for amplifier design and placement flexibility without compromising performance.

Performance Benefits



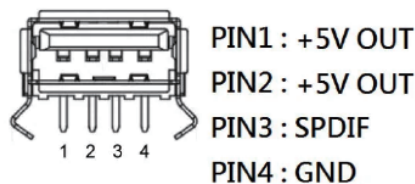
The integration of GaN Power Factor Correction with GaN Power Modules creates a synergistic effect that delivers multiple performance advantages. The system achieves exceptional efficiency with minimal energy loss, translating to reduced operating costs and environmental impact. The high power output capability within such a compact form factor represents a paradigm shift in power supply design philosophy.

From an audio perspective, the GaN-based power supply contributes to the IDA-9's sonic signature through fast, detailed, and dynamic sound reproduction. The ultra-clean power delivery creates a deep black background that enhances musical detail retrieval and provides excellent channel separation, allowing listeners to experience music with exceptional clarity and precision. The NuPrime IDA-9's GaN power supply technology represents a convergence of advanced semiconductor engineering and audio design philosophy, delivering a solution that pushes the boundaries of what's possible in compact, high-performance amplifier design.



Using Bluetooth and WiFi Audio Receivers and Dongles

NuPrime defined an USB Type-A port to carry S/PDIF data and 5V power for connecting to external wireless audio receiver using just one standard USB cable.



The NuPrime Omnia WR-1, WR-2, BTR-HD, Stream Mini, and Stream Mini DAC wireless receivers have a micro USB port that is compatible this specification. This allow a standard off-the-shelf USB-A to micro USB cable to be used for power for the receiver as well as wireless audio data transfer in S/PDIF format.

- Inputs
 - 1 x USB PCM / DSD Digital (PCM up to 384kHz & DSD up to DSD256)
 - 1 x Coaxial Digital S/PDIF (PCM up to 192K supporting DoP format DSD64)
 - 1 x Optical Digital S/PDIF (PCM up to 192K supporting DoP format DSD64)
 - 1 x Bluetooth or WiFi receiver device (optional)
 - 1 x Analog Stereo RCA (analog input will be digitized)
- Outputs
 - 1 x pair of stereo speaker (binding posts) output
 - 1 x pair of stereo RCA (2V*), variable (volume controlled) output, full range

- USB Sampling Rates: 44.1KHz, 48KHz, 88.2KHz, 96KHz, 176.4KHz, 192KHz, 352.8KHz, 384KHz and DSD 2.8MHz, 5.6MHz, 11.2MHz
- S/PDIF Sampling Rates: 44.1KHz, 48KHz, 88.2KHz, 96, 176.4KHz, 192KHz, 384KHz (Coaxial)
- Bit Resolution: 16-32-bits
- RMS Power output: 200W x 2 @ 8 Ohms; 250W x 2 @ 4 Ohms
- THD+N: 0.005%
- Frequency Response: 10Hz to 50kHz
- AC voltage: (90VAC~130VAC // 210VAC~250VAC) With Voltage Select Switch
- AC Fuse: Slow-blow, 3A, 250VA
- Color: Black or Silver
- Product Dimension: 55 x 235 x 281 mm (H x W x D)
- Package Dimension: 80 x 390 x 360 mm (H x W x D)
- Product Weight: 4kg
- Package Weight: 5kg
- Warranty: 1 year.

NuPrime's Limited Warranty and Limitation of Liabilities

ADDITIONAL RIGHTS

For consumers, who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty does not exclude, limit or suspend any rights of consumers arising out of nonconformity with a sales contract. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the limitations or exclusions described below may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province. This limited warranty is governed by and construed under the laws of the country in which the product purchase took place.

LIMITED WARRANTY

For a period of ONE YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period"), NuPrime warrants (i) this product against defects in materials and workmanship, and (ii) that each Product, unmodified and under normal use and conditions, will substantially comply with NuPrime's applicable written technical documentation for the Product. NuPrime reserves the right to make substitutions and modifications from time to time in the specifications of Products sold by NuPrime, provided that such substitutions or modifications do not materially affect overall Product performance.

If a hardware defect exists and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, NuPrime will (1) repair the hardware defect at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. NuPrime may request that you replace defective parts with user-installable new or refurbished parts that NuPrime provides in fulfillment of its warranty obligation. A replacement product/part assumes

the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes NuPrime's property. When a refund is given, your product becomes NuPrime's property.

OBTAINING WARRANTY SERVICE

If you purchased the product in the U.S., deliver the product, at your expense, to any NuPrime Service Center located in the U.S. If you purchased the product outside of the U.S., deliver the product to any NuPrime Authorized Importer in the country where you purchased the product. Be aware, however, that not all countries have NuPrime Authorized Service Providers ('NASP') and not all Authorized Service Providers outside the country of purchase have all parts or replacement units for the product. If the product cannot be repaired or replaced in the country it is in, it may need to be sent to a different country or returned to the country of purchase at your expense for repair or replacement. If you seek service in a country that is not the country of original purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. Where international service is available, NuPrime may repair or exchange defective products and parts with comparable products and parts that comply with local standards.

You can always deliver the product to NuPrime's U.S.A or Taiwan service center for obtaining warranty service, however, you may have to pay for shipping cost.

NuPrime may send you user-installable new or refurbished replacement product or parts to enable you to service or exchange your own product ("DIY Service"). Upon receipt of the replacement product or part, the original product or part becomes the property of NuPrime and you agree to follow instructions, including, if required, arranging the return of original product or part to NuPrime in a timely manner.

When providing DIY Service requiring the return of the original product or part, NuPrime may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, NuPrime will cancel the credit card

authorization, so you will not be charged for the product or part and shipping costs. If you fail to return the replaced product or part as instructed or the replaced product or part is not eligible for warranty service, NuPrime will charge the credit card for the authorized amount.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only to hardware products manufactured by or for NuPrime that can be identified by the "NuPrime" trademark, trade name, or logo affixed to them. The Limited Warranty does not apply to any non-NuPrime hardware products or any accessories, even if packaged or sold with NuPrime hardware. Non-NuPrime manufacturers, suppliers, may provide their own warranties. Other accessories distributed by NuPrime under the NuPrime brand name are not covered under this Limited Warranty. This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication, liquid contact, fire, earthquake, non-NuPrime products, or other external causes; (b) to damage caused by service performed by anyone who is not a NASP; (c) to a product or a part that has been modified without the written permission of NuPrime; (d) to consumable parts, such as batteries, or protective coatings designed to diminish over time unless failure has occurred due to a defect in materials or workmanship; (e) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the product; or (g) if any NuPrime serial number has been removed or defaced.

Important: Do not open the hardware product. Opening the hardware product may cause damage that is not covered by this warranty. Only NuPrime or a NASP should perform service on this hardware product.

This warranty and remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. NuPrime specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If NuPrime cannot lawfully disclaim implied warranties under this limited warranty, all such warranties, including warranties of



merchantability and fitness for a particular purpose are limited in duration to the duration of this warranty. No NuPrime reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

NuPrime is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and property, any costs of recovering, reprogramming, or reproducing any program or data stored in or used with NuPrime products, and any failure to maintain the confidentiality of data stored on the product. NuPrime specifically does not represent that it will be able to repair any product under this warranty or make a product exchange without risk to or loss of programs or data.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state or province.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

Replacement as provided under this warranty is the exclusive remedy of the consumer. NuPrime shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on this product. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration to the duration of this warranty.



Beyond Ordinary