Specification

AUDIO INPUTS

Sample Rates Supported	S/PDIF up to 192kHz
USB Inputs	Front panel socket
UPnP™	Hi-Res UPnP™ playback up to 24bit/96kHz (WAV and FLAC)
Antenna Inputs	DAB/FM, WiFi
Tuning Range	DAB (Band III and L Band), FM 87.5-108MHz
Other Inputs	Ethernet

AUDIO OUTPUTS

Analogue Outputs	DIN and RCA
Line Outputs Fixed (level)	2.1V rms at 1kHz
Output Impedance	10Ω maximum
Minimum Load Impedance	10kΩ
Frequency Response	10Hz – 20kHz, +0.1/-0.5dB
THD+N	<0.1%, 10Hz -18kHz at full level
Phase Response	Linear phase, absolute phase correct
Digital Outputs (type)	S/PDIF, 75Ω BNC

UPGRADES

Power Supply	XPS, 555 PS
Other	DAC digital to analogue converter, Hi-Line, Power-Line

CONNECTIVITY

Infra Red	RC5
Remote Input	3.5mm jack on rear (RC5)
Remote Output	3.5mm jack on rear (RC5) x2
RS232	DE9 female (For software upgrade only)
Ethernet	Cat5, WiFi
USB	1 x front panel

FORMATS

Audio Formats Supported	Internet radio (Windows Media-formatted content, MP3 streams, MMS), Playlists (M3U, PLS), MP3, AAC (up to 320kbit/s, CBR/VBR) Apple Lossless (from iPod), Windows Media-formatted content-9 (up to 320kbit/s), WAV and FLAC (up to 24bit/96kHz via UPnP™ or USB only), AIFF, Ogg Vorbis
iRadio Service Provider	vTuner 5* full service

USER CONTROL INTERFACES

Front Panel	Yes
Handheld	User interface for iPhone and iTouch devices, downloadable from App Store

POWER

Supply Voltage	100V, 115V, 230V; 50 or 60Hz
Power Supply Options	Internal Integrated or External
Power Consumption (maximum)	60VA

PRODUCT CERTIFICATIONS & LICENSES

Certifications	Apple (made for iPod), vTuner Premium
Licenses	MP3, AAC, DAB

PHYSICAL

Dimensions (mm)	87 x 432 x 314mm (H x W x D)
Weight	10kg

Windows Media™ is a trademark of Microsoft Corporation.
UPnP™ is a trademark of the UPnP™ forum.
iPod, iPhone and Mac are trademarks of Apple Inc, registered in the U.S. and other countries.

Please note information provided relating to specification is subject to change.

naim
world class sound...

NAIM AUDIO LIMITED
Southampton Road • Salisbury • England • SP1 2LN
Tel: +44 (0) 1722 426600 • Fax: +44 (0) 871 230 1012

www.naimaudio.com

NDX Network Player

naim
world class sound...

NDX Network Player

The Performance Upgradeable, High-End, Network Audio Player

The NDX is a network audio player with the potential to transform music in the home. It can play UPnP™ audio streams, Internet radio, iPod or iPhone audio, and files stored on USB memory hardware. Three high resolution S/PDIF digital inputs complete its versatility.

NDX is however more than just a versatile network audio player. It embodies Naim's unrivalled digital audio experience and knowhow to provide music reproduction quality equivalent to the best-in-class CDX2 CD player and HDX hard disk player. It makes music with vitality and clarity, rhythm and warmth. NDX defines a new class of high-end audio source equipment and brings to it genuine audiophile performance.

Streaming versatility

Connected to an analogue or digital preamplifier input, NDX unlocks the potential of network audio. Its network connection can be either wireless or wired, and NDX can stream audio files, including iTunes libraries, stored on a computer or on network storage, via UPnP™. It can play all common, and some not so common, audio file and stream formats at up to 24bit/96kHz resolution: WMA, MP3, MMS, AAC, Apple Lossless (from iPod), WAV, FLAC, AIFF and Ogg Vorbis. NDX also recognises M3U and PLS playlists formats and supports gapless playback on all lossless formats.

NDX can play literally thousands of Internet radio stations and an optional FM/DAB tuner module, that integrates seamlessly with the NDX control interface, is also available. NDX can play iPod or iPhone music via its front panel USB socket and, via the same socket, it can play audio files stored on USB memory sticks and drives. NDX is also fully Apple authenticated enabling playback of iPod/iPhone-stored digital media, bypassing the iPod/iPhone's internal digital to analogue converter for optimised performance

Three independently selectable digital inputs enable S/PDIF audio signals from CD players, computers and other digital audio sources at up to 24 bit/192kHz resolution to be handled by the NDX. Each digital input offers a different connection socket option; optical TosLink, coaxial phono and coaxial BNC, to provide yet greater versatility and optimised sound quality.

Streaming technology

Beneath NDX versatility lies one of the most technically ambitious and accomplished of all Naim products. The wide variety of digital audio data streams and signal types, and the necessity that each one is delivered to the NDX outputs with maximum fidelity, demanded first that many new and innovative techniques for electronic signal isolation had to be developed and refined. The full spectrum of Naim's uniquely advanced digital signal handling and processing techniques is also deployed in the NDX. The NDX uses, for example, the same RAM buffer and master-clock jitter removal technique of Naim's DAC outboard digital to analogue converter. It employs the same Burr Brown digital to analogue converter chip as fitted to the HDX hard disk player, and all the oversampling, filtering and signal management techniques that have brought Naim to the forefront of digital music in the home. Component selection and layout on the six layer main PCB is entirely optimised for sound quality and the classic Naim extruded non-magnetic aluminium case and chassis construction ensures microphony is minimised. NDX is a true audiophile product where maximising sound quality drives every development decision.

As with every Naim product, fastidious attention to power supply noise and regulation is a fundamental element of NDX performance. A massive mains transformer, oversize smoothing capacitors, independent power supplies and multiple regulators, along with painstakingly meticulous PCB layout and earthing topology, ensure minimal power supply noise.

Choice of control

Versatility and audio quality is worth nothing without an intuitive user interface and the NDX has three. It can be operated from its front panel buttons, from its remote control handset or using the Naim n-Stream iPhone app. The app also allows input and volume control of most Naim preamplifiers and DAC digital to analogue converter. In each case, NDX control is simple, intuitive and satisfying.

Connected to a world of music

Connect an NDX to your existing audio system, and the world of network audio opens for discovery. It's a world of high resolution audio downloads, UPnP™ streaming, and the vast resource of Internet radio. But thanks to Naim technology, it's a world of very high quality reproduction also, where music doesn't simply play in the background but lives, breathes and communicates.

Upgrade Path For even better performance the NDX can be upgraded by the substitution of an outboard XPS or 555 PS power supply, and, or the addition of the separate DAC digital to analogue converter.