



#### AUDIO INPUTS

S/PDIF	1x BNC, 1x RCA, 1x optical, sample rates up to 192kHz/24bit
USB type A	Front panel socket for iPod, iPhone, iPad and memory sticks
UPnP™	Wired Ethernet (RJ45) or Wi-Fi
Antenna inputs	DAB/FM, Wi-Fi (802.11 g or n at 2.4GHz)
Tuning range	DAB (Band III and L Band), FM 87.5-108MHz (FM/DAB version only)

#### AUDIO OUTPUTS

Analogue outputs	DIN and RCA, 2.1V rms at 1kHz at full level (Fixed)
Output impedance	32Ω maximum
Minimum load impedance	10kΩ
Frequency response	10Hz – 20kHz, +0.1/-0.5dB
THD+N	<0.02%, 10Hz to 20kHz at full level
Phase response	Linear phase, absolute phase correct
Digital outputs (type)	S/PDIF, 75Ω BNC

#### UPGRADES

Power supply options	XPS, 555 PS
Other	DAC, Hi-Line, Power-Line, long-range WA5 antenna

#### CONNECTIVITY

Infrared	RC5
Remote input	3.5mm jack on rear (RC5)
Remote output	3.5mm jack on rear (RC5) x2
Rear USB	For updates only (USB mini-B)

#### FORMATS

Audio Files Supported	WAV and AIFF (up to 32bit/192kHz) FLAC (up to 24bit/192kHz) ALAC (up to 24bit/96kHz) Windows Media-formatted content (up to 16bit/48kHz) must be WMA 9.2 Ogg Vorbis (up to 16bit/48kHz) MP3 and M4a (up to 320kbit/s)
iRadio service provider	vTuner 5* full service Internet radio (Windows Media-formatted content, MP3 streams, MMS, Ogg Vorbis)

#### USER CONTROL INTERFACES

Front panel	Yes
Handheld	Remote handset included and optional n-Stream app for iPod, iPhone and iPad devices, downloadable from App Store
AMX & Crestron	Installer-customisable reference apps available

#### POWER

Supply voltage	100V or 115V or 230V; 50 to 60Hz
Power consumption (maximum)	60VA

#### PRODUCT CERTIFICATIONS & LICENSES

Certifications	Apple (made for iPhone), vTuner Premium
Licenses	MP3, AAC, DAB, Windows Media

#### PHYSICAL

Dimensions (mm)	70 x 432 x 301mm (H x W x D)
Weight	6.5Kg

## ND5 XS Network Player



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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.



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### Slimline streaming

Naim has always been associated with firsts. The first high-end CD player - the CDS. The first high-end hard disk music player – the HDX. The first high-end BMR speaker – the Ovator. The first performance-upgradable high-end audio streamer – the NDX. And now the NDX has its first offspring – the ND5 XS. The ND5 XS takes the DNA of the NDX and concentrates it in the slimline XS style package. With an ND5 XS you can stream audio from a UPnP™ server, discover internet radio, connect your iPod, iPhone, iPad or USB storage, and even listen to conventional digital audio sources. Simply connect the ND5 XS to your home network, plug it in to a spare amplifier input, and the new world of streamed audio is yours.

The ND5 XS is a condensed NDX, but while for the rest of the world that term might imply something missing, there's no functionality cut from the ND5 XS. It incorporates most of the digital and analogue audio hardware and the same signal path as the NDX, and features the same connectivity. It offers the same variety of control interfaces too – front panel buttons, remote handset or iPhone, iPad or iPod Touch app – and the same complement of inputs, outputs and network capabilities. And it goes without saying that the ND5 XS can offer the same potential for extraordinary music from every one of its inputs and sources.

### Musical multitasking

Streamed audio is a hi-fi revolution and the ND5 XS unlocks its potential. It provides easy access to all the audio delivery formats that have suddenly made music in the home exciting once again. Through its wired or wireless network connection the ND5 XS can play literally thousands of internet radio stations. The ND5 XS is also fully Apple Authenticated meaning it can play iPod, iPad or iPhone-stored music, digitally for optimised sound quality, via its front panel USB socket. And via the same socket, the ND5 XS can play audio files stored on USB memory sticks. The ND5 XS can play audio files, including iTunes libraries, stored on a computer or on network storage over UPnP™. It can play the full range of audio file and stream formats at up to 24bit/192kHz resolution: WAV, FLAC, Apple Lossless, AIFF, Windows Media-formatted files, MP3, M4A, MMS, AAC and Ogg Vorbis. The ND5 XS will also handle M3U and PLS playlists formats and it supports gapless playback. Finally, an optional FM/DAB tuner module that integrates seamlessly with the ND5 XS control interface means traditional radio is also not forgotten.

For more conventional external audio sources the ND5 XS provides three independently selectable digital inputs to enable S/PDIF audio from CD players, computers and other digital audio sources at up to 24 bit/192kHz resolution to be played. The three digital inputs offer a different connection socket option; optical TOSlink, coaxial phono and coaxial BNC, to provide both versatility and optimised sound quality.

### Technology for music

Like the NDX, the ND5 XS is one of the most technically advanced and accomplished of all Naim products. The use of numerous innovative techniques for electronic signal processing and isolation ensure that each digital audio data stream is delivered to the ND5 XS outputs with maximum fidelity. The ND5 XS uses the same RAM buffer and master-clock jitter removal technique of the Naim DAC. 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 is entirely optimised for sound quality and the XS style case construction helps minimise microphony by providing a rigid non-resonant foundation for the electronics. Like every Naim product, fastidious attention to power supply noise and regulation is a fundamental element of ND5 XS performance. A custom-wound 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.

And the result of all this extraordinary technology is extraordinary music reproduction. Connect an ND5 XS to your existing audio system and the world of high resolution audio downloads, UPnP™ streaming, and the vast resource of internet radio are yours for the listening. And it's a world where music from any source will live, breath and satisfy – completely.

### Choose to control

The ND5 XS is as versatile in use as it is in its applications. Its three user interfaces provide alternative methods of control – each one appropriate for different situations and personal preferences. It can be operated from its front panel buttons, from its remote control handset or by using the free Naim n-Stream iPhone, iPad and iPod Touch app. In each case, control is simple, intuitive and satisfying. System automation also features allowing the ND5 XS to integrate with Naim's DAC or any connected Naim preamplifier or CD player, offering centralised control via the n-Stream app.

### Upgrade Path

For even better performance the ND5 XS 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.

\*Please note: Only current "Classic" style XPS power supplies can be used with the ND5 XS. Older "Olive" style XPS units are incompatible and cannot be used.

# ND5 XS

High-end slimline network player

