

FlexStar[®]

HDI-100 Data Importer



The FlexStar[®] HDI-100 data importer enables Advanced Applications Services (AAS), including supplemental audio channels for HD Radio[™]. The HDI-100 is one of several products in the Harris[®] FlexStar[®] product line. FlexStar[®] products provide affordable, end-to-end solutions for radio's conversion to emerging digital formats.

The HDI-100 data importer is responsible for accepting, managing and multiplexing all HD Radio[™] Advanced Applications Services, including supplemental audio channels.

The HDI-100 is designed to offer a cost-effective method of implementing supplemental audio through software upgrades, providing the flexibility to implement more advanced data services as they develop.

The HDI-100 will interface directly to the DEXSTAR[®] FMHD exciter or may be connected to the FlexStar[®] HDE-100 program exporter at the studio site.

Primary functions of the HDI-100 include:

- Encoding and multiplexing of supplemental audio and supplemental audio program-associated data for transport to HDE-100 or DEXSTAR[®] exciter
- Managing connections and content delivery from service providers
- Managing system bandwidth allocation, exciter configuration and codec bit rates
- Monitoring and reporting capabilities for scheduling, traffic and utilization reports
- Support for iTunes[®] Tagging
- Neural Neustar[®] audio codec multichannel preconditioning software — eliminates the need for hardware processors on the HD2/HD3 channels*

Future AAS supported by the HDI-100 include:

- Traffic information
- Breaking news
- Weather information and alerts
- Stock quotes
- Sports scores
- Amber alerts
- Public service announcements
- Display advertiser information
- Location specific advertising
- Resale of bandwidth to third parties

Features

- Enables single or multiple supplemental audio channels
- Includes Lynx AES-16 high-performance audio card
- Low-cost, rack-dense, single processor, 2RU general-purpose (GP) server
- Compatible with DEXSTAR[®] and HDE-100 program exporter
- Software upgradeable for future datacasting applications

Specifications

Specifications and designs are subject to change without notice.

The HDI-100 includes all hardware and iBiquity importer software to encode and multiplex two channels of supplemental audio and/or multiple data channels.

System Requirements:

- Bidirectional IP connection with DEXSTAR® or HDE-100 exporter
- 2RU space, 19-inch EIA rack rails
- Customer-supplied keyboard, mouse and monitor. (Optional rackmount MAARM-KB-LCD15 sold separately.)
- Customer-supplied Local Area Network connection components (Cable, Ethernet switches, routers, etc.)

Hardware Specifications:

Server Type: Bell Microproducts, NCNR EMB Pentium® 4 3.0 GHZ 1 MB cache, ITOX 865 G chipset board, 512 MB PC2700 UB LP DDR333, SYSTIUM base chassis.

Operating Temperature: 10 to 35° C

Operating Relative Humidity: 20% to 80% (non-condensing)

Operating Altitude: Up to 10,000 ft AMSL

Dimensions: 3.5" H (2RU) x 16.75" W x 17.75" D

Weight: 20 lbs

AC Input Voltage: 110/220 VAC auto-ranging

Power Consumption: 280 W

Sound Card: Lynx AES16 SRC 24-bit audio with 8 AES3 audio inputs and outputs

Processor: Single Intel Pentium® 4 processor with 3.0 GHz, 800 MHz front side bus

Memory: Two each 256 MB PC2700 UB LP DDR333 SDRAM

Hard Disk Drive: BARRACUDA 7200.1 80 GB 3.5

CD ROM Drive: CD-ROM, ATAPI black, 52X, internal

Graphics: On-board video ATI Rage XL controller with 8 MB memory

Slots: Three total PCI

Operating System: Microsoft Windows® XP Pro SP2

Installed Software: Neural Audio® codec multichannel preconditioning software

NOTE: USE OF THIS SOFTWARE REQUIRES USB HARDWARE KEY, INCLUDED IN PURCHASE OF HDRNEUSTARSW4.0-M, SOLD SEPARATELY.

IO Ports:

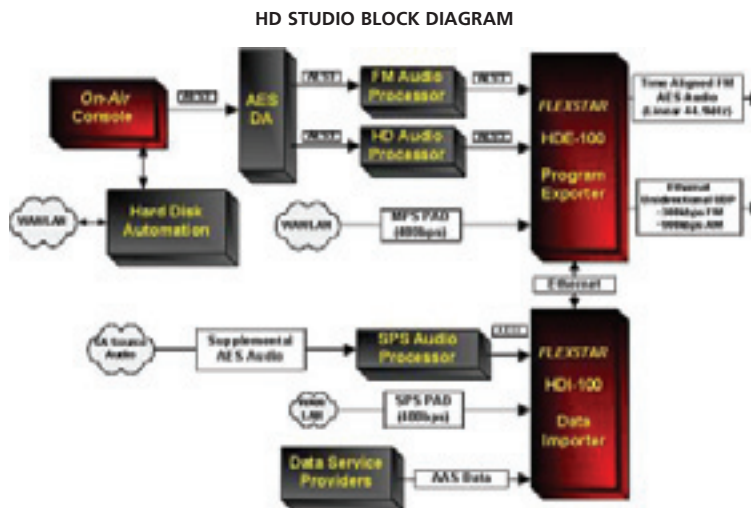
Front: Two Universal Serial Bus (USB 2.0),

Rear: One 9-pin serial, four Universal Serial Bus (USB 2.0), one 15-pin VGA connector, RJ-45 Ethernet port, PS/2 mouse, PS/2 keyboard

Other: Front-panel, green LED power and red LED HDD indicators, push-button reset and power switches, front-panel-accessible, reusable filter media.

Regulatory: FCC (US only) Class A, WEEE/ROHS PB FREE

*NOTE: USE OF THE NEUSTAR SOFTWARE REQUIRES USB HARDWARE KEY, INCLUDED IN PURCHASE OF HDRNEUSTARSW4.0-M, SOLD SEPARATELY.



For more information please visit www.broadcast.harris.com.

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