DCX4220 Cable Set-Top

ATSC, AVC, HD Set-Top with DOCSIS® 3.0 modem

PRODUCT OVERVIEW

The ARRIS DCX4220 Hybrid STB provides a cost effective design that allows you to grow your IP network while supporting existing linear QAM programming.

The DCX4220 is an all-digital, ATSC, H.264/MPEG-4 set-top designed to provide high-definition video along with digital sound, on-demand and interactive services for the home environment.

The ARRIS DCX4220 provides a 1GHz, full-band capture tuner, as well as an embedded DOCSIS 3.0+ cable modem.

TRANSITION TO IP

The DCX4220 fully supports the growing consumer demand for high-definition programming and high-bandwidth advanced applications. The DCX4220 supports customers traditional application, and can be upgraded to ARRIS's KreaTV middleware, which provides support for DOCSIS 3.0 16x4 modem to grow your IP service in the future. The DCX4220 then offers a configurable DOCSIS/Digital Video Tuner to support multiple video tuners and a large memory footprint allows for future application expansion. The optional SD card can be used for trick play services or as additional storage.

REMOTE DIAGNOSTIC CAPABILITIES

The DCX4220 utilizes the ARRIS Smart Stream Terminal Data Collector (STDC) service for remotely gathering important set-top status and health information in a centralized server for evaluation and corrective action. TR-069 is supported in ARRIS's KreaTV middleware for remote gathering of set-top status and health information

FEATURES

Embedded MediaCipher™ Conditional Access

Configurable front-end, providing dual 1 GHz digital video tuner (QAM 64/256) and 1 GHz DOCSIS tuner capability

Compatible with ARRIS DCT/DCH/DCX legacy software API set

Digital, Dolby Audio™, AAC-LC / HE-AAC, WMA9, MP3, Audio decode of Dolby®

High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.264), HP@L4.1

DOCSIS 3.0+ embedded Cable Modem with support for DSG (up to 16 down, 4 up), with 2 digital video tuners which could be reduced to 8x4

SCTE 55-1 Out-of-band

Video scaling

Video-in-Graphics

Accelerated 2-D and 3-D graphics

512 MB Flash (standard), 1 GB DRAM total (standard) 2GB DRAM optional memory

Panel Power/Standby LED with Backlit Front panel power button

Remote and On-screen diagnostics

KreaTV support with upgrade of Middleware

Rovi® , HDCP, DTCP, and CGMS-A content protection schemes on the respective interfaces

DCX4220

ARRIS

SPECIFICATIONS

RF Input Frequency	54 to 1002 MHz (video and audio)
Memory	512 MB Flash (standard), 1 GB DRAM total (standard)
Video	Accelerated 3D support, and scalable video-in-graphics
Graphics Resolution	SD Outputs 4:3 up to 720x480 HD Outputs 16:9 up to 1920x1080
Video Output Resolution	480i/p, 576i/p, 720p, 1080i, and 1080p24, 1080p30, and 1080p60 (HDMI only)
Audio	Dolby Audio, Dolby Volume Levelling HE-AAC, WMA9, MP3 capable
Operating Temperature	15°C to 40°C (50°F to 104°F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	90 to 264 VAC, 60 Hz
Power Dissipation	<36 W (depending on features)
OOB Modulation QPSK	Frequency Agile receiver 70 to 130 MHz Bandwidth 2.0 MHz maximum Level –15 to 15 dBmV
Digital Input Level	64 QAM –15 to 15 dBmV 256 QAM –12 to 15 dBmV
Dimensions	9.5 in W x 6.5 in D x 1.6 in H (242.4mm x 166.4mm x 43mm)
Weight	1.6lbs (0.726 kg)
Manufacturing Optional Features	2GB DRAM memory configuration

STANDARD INTERFACES

Front Panel

Backlit Front panel power button

USB 2.0 Host Type A port

IR remote control sensor (RF4CE supported in KreaTV)

Rear Panel

F-connector for cable input

HDMI output

Baseband composite video output

L/R audio output –variable

Optical S/PDIF digital audio outputs

10/100 Ethernet interface

USB 2.0 Host Type A port

3.5 mm serial port/External IR input

CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

DOLBY AUDIO

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DCX4220-Cable-STB

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