



DCX905 Operation Description

Product Description:

The ARRIS Model DCX905 is a UHD 4kp60 Cable Television Set-top box with an embedded multi-channel full-band capture QAM front-end receiver and video back-end processor supporting video presentation and transcoding as well as other embedded functions. It is capable of presenting encrypted SD and HD video content through HDMI™ 2.0 and Analog Composite (SD content only), digital audio is presented through HDMI™ and Optical SPDIF, and analog audio is presented through baseband 3.5mm connector. It has a removable hard-drive for DVR capability, SD card slot, and single USB2.0 port for external peripherals. Wireless interface includes RF4CE with embedded antennas. It has front panel buttons and 38kHz IR receiver for user interface. System memory consists of DDR4, eMMC, and SPI Flash. The DCX905 is home networking capable through MoCA® and Gigabit Ethernet. This model has embedded security.

RF4CE Description:

DCX905 has a Zigbee RF4CE transceiver that is based on a Greenpeak GP510 reference design utilizing a 2.4GHz IEEE 802.15.4 compliant chipset. It uses two printed inverted "F" antennas to improve diversity. Nominal power is 0dBm, and modulation is per IEEE 802.15.4-2003 and -2006, which I believe is O-QPSK. Max power will be identified during regulatory testing, but should be < 0.5dBm not including antenna gain.