

ICC1-TC TUNER/CONTROLLER

DATASHEET



The ICC1-TC Tuner/Controller is an HDTV Tuner with integrated Display Controller designed for use with HD monitors and projectors in a distributed CATV system with Contemporary Research Display Express or third-party TV control. Housed in a new, smaller low-profile enclosure, the unit with built in mounting wings can be mounted flush to walls or displays.

As a full function HDTV tuner, the ICC1-TC Tuner/Controller can receive ATSC, NTSC, and clear QAM cable channels, able to decode MPEG-2 and H.264 encoded digital channels. The unit features HDMI output with full-time audio available via HDMI, as well as, variable-level analog stereo audio outputs.

FEATURES

- Through-the-RF Integration - controls displays through iCC-Net technology, communicating via existing CATV coax wiring for 1-way control
- System Solution – controllable from ICE-HE-DXL with built-in Display Express Lite app, Display Express software, and custom control systems
- Display Control - employs RS-232 control port for integrated display control, make/model types selectable from an onboard library
- Local control via IR remote (optional), wired IR from control system or remote IR sensor, or 2-way RS-232 commands
- Tunes ATSC off-air, clear QAM cable, and analog channels
- Always-active HDMI and stereo analog audio ports
- AC-3, PCM and Variable PCM digital audio formats selectable for HDMI
- Front-panel buttons allow for tuner setup and channel scan
- Analog and digital closed caption decoding
- HD video outputs scalable up to 2160p, or follow native channel resolution
- Field updatable for control and HD processing firmware

SPECIFICATIONS

Physical	Size (WHD): 9.825" wide, 10.425" with mounting wings x 1.150" height x 3.6" deep Enclosure: Steel with black powder coat paint Mounting: Hook-and-loop fasteners or screw attachment Certification: ROHS compliant, meets California codes
Front Panel	Control: Power, Menu, and Select buttons, navigation using Up and Down (Channel Up and Down) buttons LEDs: NET (Green) & Data (RX-Green, TX-Red)
Rear Panel	Service: USB port (not presently active) RF In: 1 'F', female, 75 ohm impedance, Control Module Input, -10 to 25 dBmv typical RF Out: 1 'F', female, 75 ohm impedance, RF Pass Through output to Air/Cable Air/Cable: 1 'F', female, 75 ohm impedance, Tuner RF input, -10 to 25 dBmv typical AV Output: Simultaneous HDMI (PCM/AC-3) & stereo audio. Analog Audio Out: 3.5mm TRS jack, Mono, Stereo, or SAP, variable level HDMI: HDMI receptacle, Type A, HD video and digital audio, version 1.4a (2160p/1080p/1080i/720p/480p) RS-232 Control: DB-9 male, RS-232 data link to control display or projector, 1200-230.4K baud IR In: 3.5 mm TRS input for external IR sensor or wired IR (no carrier, discrete codes available) Power In: 2.1mm coaxial jack (inside center conductor positive) 1 A maximum, 11.5 to 15 VDC, 12 VDC typical
Tuning	Frequency Range: NTSC, ATSC (8-VSB) and Clear QAM (cable) television 55.25 to 801.25 MHz DTV Resolution: ATSC/QAM 1080i/720p/480p/480i Tuning: Off-air 2-69 (NTSC and 8-VSB) and CATV 2-135 (NTSC, 64QAM, 256QAM, 8-VSB) Aspect Ratio: 4:3/16:9 (Digital), 4:3, 16:9, Zoom (SD channels) Captioning: DTV and analog, set by program or customized for size, font and display attributes Lock: Parental option for channels and/or rating
Decoding	Video: MPEG-2 (480i, 480p, 720p, 1080i), H.264 (480i, 480p, 720p, 1080i, 1080p) Audio: AC-3, MPEG-1 Layer 2, AAC
Captioning	On-Screen: Displays on-screen analog and digital captioning on HDMI port.

Includes

PS12-1.5 Switching power supply, 1.5A 12 VDC, compact enclosure fits into power strips, 2.5" H x 2" W x 1" D
12" mini-coax "F" male to male RF cable

Options

HD2-RC HD Tuner Remote, 4AA batteries
IR-RXD External IR Receiver
CC-COM RS-232 Null Modem Cable
CC-COM 3.5 Serial Cable