

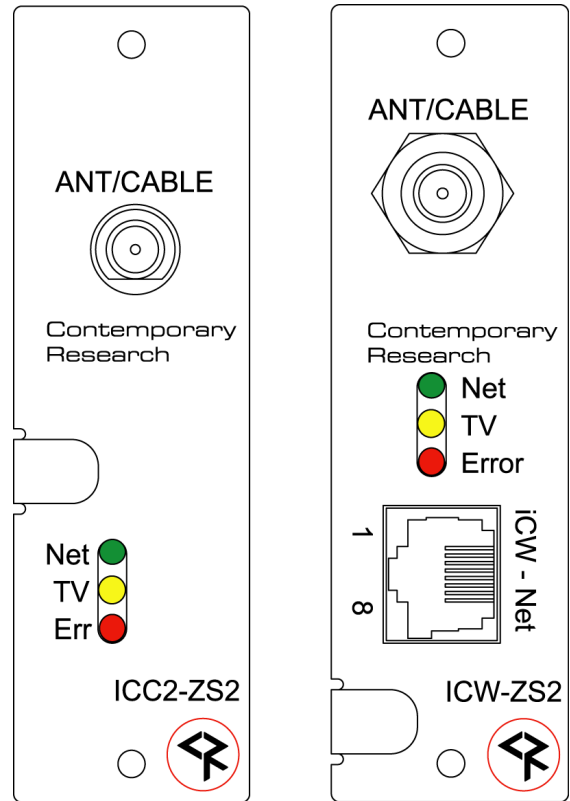
Zenith SuperPort Controllers Cat 5 Wired and RF Coax Control

Contemporary Research offers two solutions for intelligent television control and interactive distributed media management, the ICC and ICW ZS2 Zenith SuperPort Controllers. The ICC2-ZS2 communicates bi-directionally over the same RF coax that carries the CATV channels, while the ICC1-ZS2 receives commands over RF. The ICW-ZS2 connects over a twisted-pair network using Category 5 or Category 3 wiring and connectors.

Both ICC- and ICW-series Zenith SuperPort Controllers take advantage of Zenith SuperPort TV technology. Inserting into the Zenith SuperPort card slot, the Controllers use the TV's internal IR sensor, character generator, and channel management to deliver cost-effective network TV and media management.

Compatible with the Contemporary Research **ABC Media Retrieval System** and **iC Commander** software, the ZS2 units can be networked with up to 4000 TV and Video Display controllers. For custom systems applications, all Smart TV Controllers and other CR devices can be accessed from a single RS-232 port on a Head-End Network Controller.

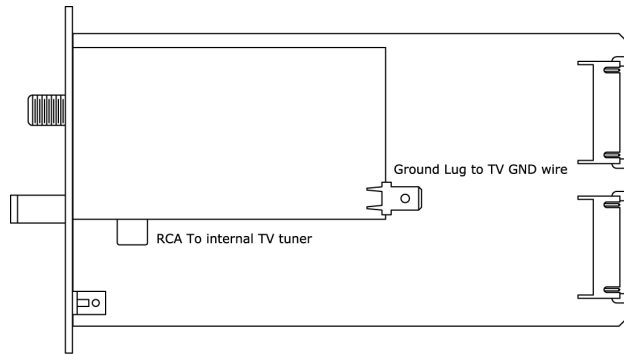
Applications include media distribution and control for educational television systems, theme parks, museums, government facilities, arenas, convention centers, airports and corporate video networks.



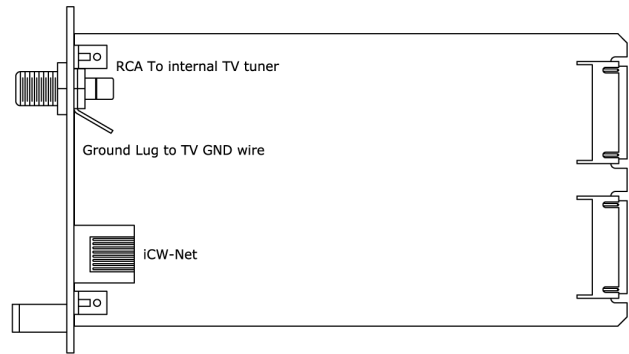
Features

- ▽ Controls Zenith SuperPort TVs for cost-effective operation
 - Creates on-screen channel labels, messages, text menus, and feedback using TV's onboard character generator
 - Receives wireless commands from IC-RC IR remote using TV's IR sensor
 - Delivers absolute volume control for level and mute
 - Manages channel access by changing the TV's internal available channel list
 - Delivers absolute power control with on/off feedback from TV
- ▽ Interacts with the Zenith SuperPort TV's internal IR sensors, character generator, and tuner
- ▽ Networks with up to 4,000 TVs through an ICC/ICW-HE Head-End Network Controller
 - ICC1 units receive commands over the same RF cable as CATV channels (ICC-HE)
 - ICC2 units provide 2-way command and control with feedback over RF (ICC-HE)
 - ICW units network over Category 5 or 3 wiring (ICC-HE and ICW-HE)
- ▽ Responds to individual and zone commands from a single RS-232 port on the Head-End Network Controller
- ▽ Provides LED feedback for network, control, and operation status
- ▽ Restores all operation status after loss of power from data stored in non-volatile memory
- ▽ Inserts into Zenith SuperPort card slot for simplified installation and ease of control

ZS2 Specifications



ICC1/ICC2-ZS2



ICW-ZS2

Models

ICC1-ZS2	Zenith Smart TV, 1-way iCC-Net coax control
ICC2-ZS2	Zenith Smart TV, 2-way iCC-Net coax control
ICW-ZS2	Zenith Smart TV, iCW-Net Cat5 wired control
All:	Zenith MPI compatible, Concierge series, Presentation series, and Health View models

Physical

Size:	1.12" [29mm] wide x 3.73" [95mm] height x 5.95" [151mm] deep
Weight:	5 oz [143g]
Enclosure:	All aluminum with durable black powder coat paint
Mounting:	Inserts into SuperPort slot of Zenith TVs, replaces card included with TV

Front Panel Status

Net LED:	Green LED for iC-Net bus, flashes once per second if receiving communication
TV LED:	Yellow LED stays on, flashes when receiving IR data, off when Smart data connection is not active
ERR LED:	Red LED indicates a problem within the unit

Connections - ICC1-/ICC2-ZS2

Ant/Cable:	'F', female, 75 ohm impedance, RF from CATV system
iCC-Net:	Carried over the same RF coax connection as TV channels
Receive:	Mid-band VHF, 74.7MHz, sent from IC Head-End Network Controller -25 to +35 dBmV signal level
Transmit:	Sub-band, 5.6MHz sent to Head-End Network Controller +/- 80 KHz max carrier deviation +49dBmV nominal
RF Out:	Internal RCA female, 75 ohm impedance, RF to TV
Ground:	Internal lug for TV GND wire
Power:	Powered by TV

Connections - ICW-ZS2

Ant/Cable:	'F', female, 75 ohm impedance, RF from CATV system
ICW-Net:	RJ-45 female 8 pin Telco jack RS-485 type data requiring at least 2 twisted wire pairs with shield or fifth conductor CAT3/CAT5 compatible unshielded, max 3300 feet [914m] from iC Head End
RF Out:	Internal RCA female, 75 ohm impedance, RF to TV
Ground:	Internal lug for TV GND wire
Power:	Powered by TV

Options

- IC-RC Wireless IR Remote for user control and system setup
- Internal buzzer used for system-activated alerts



IC-RC Wireless IR Remote
(not included)