

Inno Vations

IN HOME AUTOMATION & BUILDING CONTROL

edited by
Harv Weiner

residential electronics.

The CENode Points family provides two classes of components: Connection Points and Application Points. Connection Points offer a complete CEBus-compliant network interface for power line (PL) or radio frequency (RF) communications. Connection Points ensure that OEM products are interoperable with any other manufacturer's CEBus-compliant products. They also provide a standard microprocessor interface to the CEBus network and consistency between different kinds of communications media such as PL and RF.

Application Points offer complete CEBus-compliant application implementations for simple sense and control functions. Users only need to provide their own application circuitry and packaging to produce a complete CEBus-compliant product.

CENode Connection Points for PL applications are available for \$20 in OEM volumes. CENode Connections Points for RF applications will be available in the third quarter of 1995.

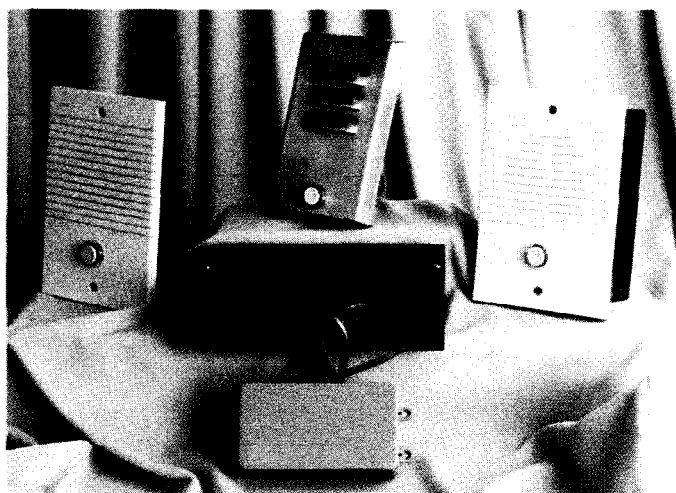
SIMPLIFIED WIRELESS CONTROL NETWORKS

The promise of intelligent control networks for home and commercial automation took a great leap forward when Intellon unveiled CENode Points, a new family of network components that lets manufacturers easily embed wireless, distributed-control capabilities within their products.

Based on CEBus, the industry-standard communications protocol for home networks, the CENode Points family provides a set of CEBus-compliant building blocks that can be easily integrated into home appliances, lighting, security systems, utility meters, heating and cooling systems, phone systems, and other

Intellon Corp.
5100 West Silver Springs Blvd. • Ocala, FL 34482
(904) 237-7416, Ext. 204 • Fax: (904) 237-7616

#511



TELEPHONE SECURITY INTERCOM

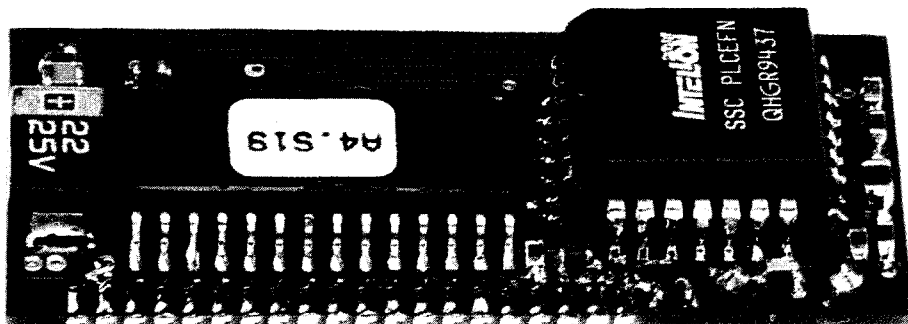
The Tu-Dor Doorman is an intercom which enables a doorbell to be answered from any telephone. The system is compatible with commercial or single-line phone systems and does not require a dedicated trunk port to operate.

The Doorman requires the installation of a bell or buzzer. When someone activates the bell by pushing the door button, the occupant picks up the phone and is automatically connected to the door station. The system is compatible with cordless phones and is particularly useful when employees and security people are working alone and need flexibility in responding to doors.

Door stations are available in plastic or stainless steel. The system can be upgraded to include remote door-strike activation. Prices start at less than \$200.

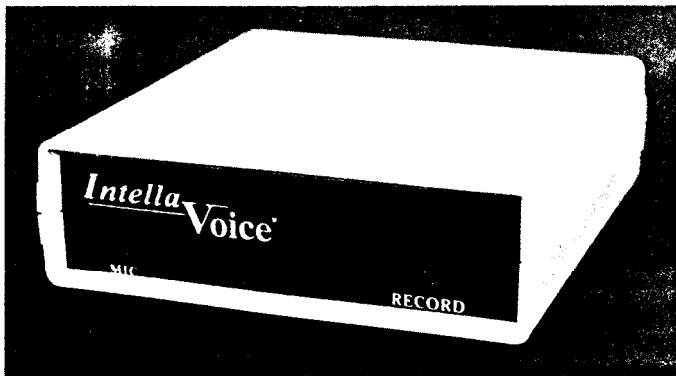
Solutions Worldwide
P.O. Box 8110-812
Blaine, WA 98231
(604) 582-4806
Fax: (604) 582-4386

#510



X-10 SPEAKS

IntellaVoice, a stand-alone X-10 message controller from Intella-Home, provides voice announcement for X-10-based home automation systems. Owners customize their own announcements to accompany key X-10 events. The voice-to-EEPROM storage retains messages even without power. Its built-in microphone and automatic-gain circuits produce high-quality natural voice reproduction. Up to eight, nearly 10-s announcements can be recorded. The onboard processor monitors the power line using the X-10 TW523 interface for key event commands, then plays the correct announcement for that event.



Intella-Home, a security and home automation installer for over four years, has been using its IntellaVoice units exclusively in private installations up to now. Announcements can be heard through the built-in speaker or sent to whole-house audio systems through the supplied auxiliary output jack. Owners of automated homes can enjoy a personal wake-up message while the coffee is brewing or a bedside warning when a yard motion detector is triggered. IntellaVoice can even announce hidden automation activity like "lowering air conditioning" or "water heater's off." The unit comes preprogrammed to accept voice messages without extensive user setup and may be recorded thousands of times without loss of quality.

IntellaVoice sells for \$379.

Intella-Home, Inc.
P.O. Box 780392 • Sebastian, FL 32958
(407) 589-0970

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3-V TEMPERATURE SENSOR

Analog Devices introduces a 3-V temperature sensor IC with a voltage output guaranteed to exhibit accuracy better than 2°C and nonlinearity better than 0.5% over its full 0-100°C temperature range. The **AD22103** offers high gain and direct connection to standard analog-to-digital converters and requires no additional signal-conditioning circuitry or linearity compensation.

The AD22103 is ratio-metric, providing sustained precision operation as battery voltage levels decrease. The IC is housed in small TO-92 or SO-8 packages and is well-suited for temperature-monitoring solutions in computers, cellular and cordless telephones, as well as portable and low-power electronic equipment.

The AD22103 is equipped with on-chip linearization and signal conditioning. These features eliminate external signal-conditioning circuitry and reduce sensor-system development costs. Since the sensor dissipates very little power, it contributes no appreciable system heat, eliminating the self-heating errors associated with other electronic temperature sensors.

The AD22103 sells for \$0.98 in 1000-piece quantities.

Analog Devices
One Technology Way
Norwood, MA 02062-9106
(617) 937-1428
Fax: (617) 821-4273

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