# ST☆RGATE
### INTERACTIVE AUTOMATION SYSTEM

## *The Next Generation In Automation!*

**ST☆RGATE** is a powerful Interactive Automation System that integrates control of the different sub-systems throughout your home or business including: Lighting, Security, Entertainment (Audio/Video), Communications, Heating/Cooling, Pool/Spa, Irrigation, Appliances and much more.

### THE NEXT GENERATION IN AUTOMATION

**ST☆RGATE** integrates scheduling and advanced two-way control of X-10, Infrared, Hardwired Inputs and Outputs, Telephone, Intercom, Interactive Voice Response and Multi-media functions. It can be operated from any telephone, computer, X10 controller, IR remote, wireless remote (RF), digital and analog inputs, ASCII (RS-232), and by time/event schedule.

### ADVANCED TWO-WAY X-10 CONTROL

In addition to sending X-10 commands, **ST☆RGATE** *monitors and identifies* all X-10 activity on the power line, allowing intelligent "If-Then" control based on received X-10 commands and/or other input conditions. Programmed routines and complex macros can be set or triggered at the touch of a button from any X-10 controller (desk top, wireless remote, wall-mounted, etc.). **ST☆RGATE** also supports X-10 Status Request commands and Preset Dim and Micro-Dim/Bright commands available with PCS brand dimmer modules.

### ADVANCED TWO-WAY TELEPHONE CONTROL

**ST☆RGATE** sends <u>and</u> receives touchtone signals and responds to ring, off-hook, on-hook and Caller I.D. signals for optimum control by phone and unlimited communication possibilities! Any combination of telephone signals can be used to trigger events. For example, dialing 9-1-1 can automatically flash the outside lights to help authorities locate your house. The tv or stereo can automatically mute when the phone rings and un-mute when the phone is hung up after the call. With Caller I.D., incoming calls from friends and family can be identified and announced through loudspeakers ("John Doe is calling!") or, when you're away, automatically transferred to your cellular phone (using phone company's 3-Way Calling) or pager to display the caller's number!

Three different remote access codes can be programmed (up to six digits each) and levels of access assigned. For instance, your personal remote access code can allow complete access to all **ST☆RGATE** functions while your neighbor's code only allows control of your sprinklers and outside lights when your away. Calls can be logged for later review. Calls to specific numbers (teen calling boyfriend/girlfriend) can be restricted to certain times of day and duration. **ST☆RGATE**'s separate phone and intercom outputs allow control via the intercom without interfering with the outside line and vice versa. Multi-line phones can be connected to both outputs for maximum flexibility.

### INTERCOM / HOLD / PAGING / LISTEN IN

**ST☆RGATE's** built-in intercom allows phone-to-phone communication and paging throughout the premises through dedicated speakers and/or audio system. Calls can be placed on hold, announced by paging, and transferred to other extensions. A line-level audio input allows connection to a microphone preamp (or other audio source) for monitoring audio via telephone.

### INTERACTIVE VOICE RESPONSE

**ST☆RGATE's** built-in Interactive Voice Response feature allows voice responses (factory presets and/or user programmed) to be issued based on any input condition(s). Over 600 preset responses (words, phrases, sound effects) are included such as "on," "off," "up," "down," etc., which can be organized into sentences along with custom user-recorded responses. Up to 128 user responses can be recorded from any phone or via line-level audio input and directed to any or all of four outputs (speaker out, line-level out, phone line, intercom line). This allows for maximum flexibility when setting up voice acknowledgments, wake-up signals, system status reports, reminders, etc. Responses to commands issued by phone, for instance, can be acknowledged over the phone without disturbing the rest of the house while responses to commands issued from desktop, wall-mounted or wireless controllers can be routed to the appropriate speaker(s) or sound system based on time of day, controller location, or any other condition(s).

### TWO-WAY INFRARED CONTROL

**ST☆RGATE** integrates control of tvs, stereos, home theater, and other infrared-operated components (with optional *IR-XP$^2$ InfraRed Xpander*™). Audio/video equipment can be controlled by time, X-10, IR, telephone, analog or digital input, ascii, etc. Custom macros can be programmed to turn on power, select sources (am/fm, tv, vcr, cd, etc.), switch channels, set volume levels, and even close the drapes and dim the lights - all at the touch of a button or at preset times! In addition to issuing IR commands, **ST☆RGATE** can respond to learned commands, allowing any IR remote to be used as a controller for **ST☆RGATE**! For instance, pressing the "power" button on your tv remote can also dim the lights and close the drapes. Unused buttons can be assigned specific **ST☆RGATE** functions. **ST☆RGATE** stores up to 500 IR commands which can be issued to any of its four zoned emitter outputs. It can also "repeat" or redirect IR commands to any or all of the four zones.

Optional **Power Status Sensors** can be connected to report on/off status of up to four components (tv, vcr, etc.) regardless of how the components are turned on (via hand-held remote, **ST☆RGATE** or manually). These can be used to prevent system-issued IR commands from getting out of step with the controlled components and to trigger events based on the on/off status of a component.
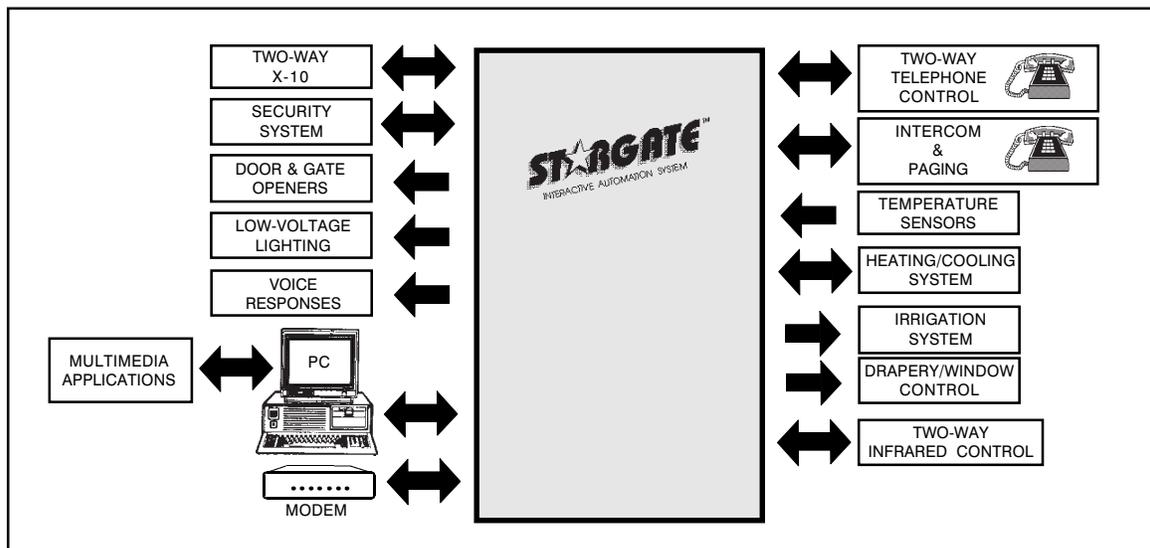
## JDS *"The Home of Automation"*
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## EASY "POINT & CLICK" PROGRAMMING

The intuitive *Event Manager* software (included) makes programming easy and offers many advanced control features that can be customized to suit any residential or commercial application. Time- and event-based schedules are easily programmed by selecting from simple "pop-down" menus. No language to learn or program code to write - the Windows-based *Event Manager* software writes it for you! Intelligent "If-Then" routines can be triggered by time, date, sunrise/sunset, received X-10 commands, received IR commands, telephone signals (touchtones, ring, off-hook, Caller I.D., etc.), analog & digital inputs, ASCII text, timers, flags, variables and other input conditions. Once programmed, **ST☆RGATE** can be disconnected from the computer or used together for monitoring, manual control and a host of multi-media functions. **ST☆RGATE's** internal clock/calendar tracks sunrise & sunset and automatically adjusts for daylight savings and leap year!

## DIGITAL INPUTS

16 opto-isolated digital inputs (expandable) accommodate motion detectors, security sensors, thermostats, assistive switching devices and other hardwired devices. Digital inputs can be connected "in series" with alarm system zones for interfacing automation with security. Digital inputs are rated 4-24v ac/dc. Input status can be logged to a file or printer and monitored/reviewed locally or remotely via modem.

## ANALOG INPUTS

8 analog inputs (expandable) accommodate temperature and humidity sensors or any device with variable output from 0-5vdc. Built-in calibration software provides gain and offset adjustment. Analog values can be logged to a file, printer and monitored/reviewed locally or remotely via modem.

## RELAY OUTPUTS

8 single-pole-double-throw (S.P.D.T.) relays (expandable) allow connection to security systems, HVAC, speakers, sprinklers, low-voltage lighting, etc. Relay output status can be logged to a file or printer and monitored/reviewed locally or remotely via modem. Relay outputs are rated 1A @ 28v ac/dc.

## ASCII INPUT & OUTPUT

**ST☆RGATE** can be programmed to respond to ASCII text data (up to 32 characters in length) to trigger any event in the schedule. It can also send ASCII text data to trigger other computer programs or control an external modem or other peripherals.

## MULTIPLE SERIAL PORTS

Four serial ports (3-RS232,1-RS485) support simultaneous connection to a pc, modem and other peripherals. Two of the RS232 ports have adjustable baud rates.

## DOWNLOADABLE FIRMWARE

**ST☆RGATE's** firmware code is stored in flash memory allowing upgrades to be received via modem, internet, etc. then downloaded without having to replace eproms or power down the system.

## SYSTEM MONITORING & CONTROL

The multi-purpose *"MegaController"* allows *total system monitoring* and *manual control* in a single, on-screen interactive workspace!



*MegaController* features include:

**Interactive Status Display** - displays on/off status of all 256 X-10 addresses and allows **manual control** of the entire system.

**Activity Log** - logs and displays date, time, origin, and letter/number/function code of all X-10, IR & I/O commands as they occur.

**History button** - recalls system activity (previous 200 commands) for review, file or print out - an invaluable tool for monitoring or troubleshooting!

**I/O Access** - displays status of digital inputs and relay outputs and allows direct control of relays.

**Analog Access** - reads and displays status of analog inputs.

**IR Access** - allows manual control of all learned IR commands.

**Telephone Access** - allows direct access to telephone dialing functions.

### SPECIFICATIONS

| | |
|---|---|
| Power | 16.5 VAC @ 40VA |
| Connections | RS232: (3) RJ11, RS485: (1) Screw Terminals |
| Compatibility | IBM or compatible w/ asynchronous serial port |
| Required operating system | Windows 3.1x or Win95 |
| Required available disk space | 3 MBytes |
| Digital inputs | 16 (expandable), 4-24V AC/DC |
| Analog inputs | 8 (expandable), 0-5VDC |
| Relay outputs | 8 (expandable), 1A @28VDC |
| Transmission rate | 9600 bps asynchronous |
| Data format | 8 Data Bits, No Parity, One Stop Bit |
| Delays | Unlimited |
| Timers | 32 |
| Variables | 256 |
| Flags | 256 |
| Macros | 256 |
| Time Labels | 32 |
| ASCII | 32 characters/line |
| Lines of code | Up to 8,000 |
| Activity Log (History) | Last 200 commands |
| Message Log | 12,000 characters |
| Dimensions | 11" x 15" x 4" |
| Weight | 13 lbs. |

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