

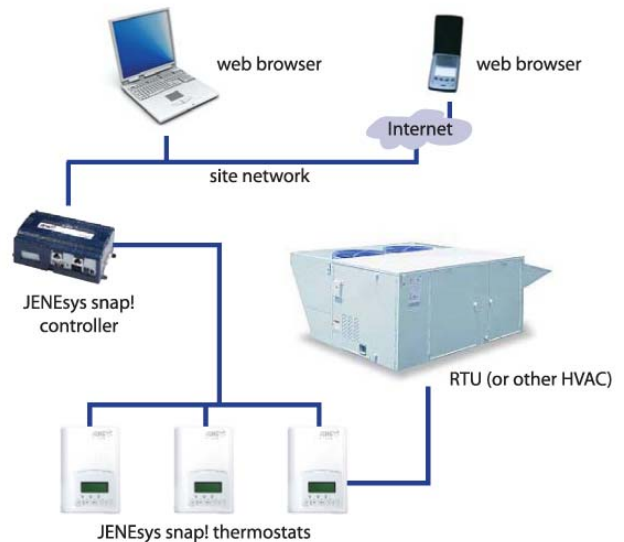
### Product Description

**JENEsys™ snap!** (Simple Networked Automation Platform) automates and sets up the operation of a web-based temperature control application for a small building.

**JENEsys™ snap!** comes with its own built-in web pages, so you don't need to buy or install any software on your PC or, as a developer, spend time creating a user interface. Just install the equipment in accordance to the **JENEsys™ snap!** instructions, plug into the **JENEsys™ snap!** controller, command discover and set up your client's building.

### JENEsys™ snap! Controller

The **JENEsys™ snap!** controller is a compact, embedded controller/server platform. It combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a small, compact platform. This controller makes it possible to control and manage external devices over the Internet and present real time information to users in web-based graphical views.



The **JENEsys™ snap!** controller is ideal for smaller installations and is all you need for a complete integrated system. The **JENEsys™ snap!** controller integrates the **JENEsys™ snap!** thermostats and serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet, or dial-up modem. **JENEsys™ snap!** controllers are powered by the Niagara<sup>AX</sup> Framework<sup>®</sup>, the industry's first software technology designed to integrate diverse systems and devices into a seamless system.

### JENEsys™ snap! Thermostats

The **JENEsys™ snap!** thermostat family is specifically designed for single stage and multi-stage control of heating/cooling equipment such as rooftop and self-contained units. The product features an intuitive, menu-driven, back-lit LCD display which walks users through the programming steps, making the process extremely simple. Accurate temperature control is achieved due to the product's PI time proportional control algorithm, which virtually eliminates temperature offset, associated with traditional, differential-based thermostats.

All models contain two digital inputs, which can be set by the user to monitor filter status, activate a remote temporary occupancy switch, and/or used as a general purpose service indicator. In addition, depending on the model, up to three remote sensor inputs are available. All models contain a SPST auxiliary switch, which can be used to control lighting or disable the economizer function and a discharge air sensor input. For more advanced applications, economizer control logic has been integrated onto the thermostat for use with proportional damper economizer actuators.

### Mounting JENEsys™ snap! Controller

**WARNING:** Do not mount in a location subject to electrical noise. This includes the proximity of large electrical contractors, variable frequency drives, electrical machinery, welding equipment, spark igniters, and any high voltage producing equipment.

You must remove the cover to install this unit. The cover snaps onto the base with four plastic tabs (two on each end). To remove the cover, press in the four tabs on both ends of the unit, and lift the cover off. To replace the cover, orient it so the cutout area for communications ports are correct, and then push inwards to snap in place.

Mount in a horizontal position. It is necessary to remove the cover before mounting. Mount on a 35mm wide DIN rail. The unit base has a molded DIN rail slot and locking clip. The following procedure provides step-by-step DIN rail mounting instructions.

- Step 1 Securely install the DIN rail using at least two screws, near both ends of the rail.
- Step 2 Position the JENE on the rail, tilting to hook DIN rail tabs over one edge of the DIN rail.
- Step 3 Push down and in to force the DIN rail clip to snap over the other edge of the DIN rail.
- Step 4 To prevent the JENE from sliding on the DIN rail, place a screw in two of the four mounting tabs in the base of the JENE.

Please contact Lynxspring for more information about this product.



**JENEsys™ snap! controller – Technical Data**

**Platform**

- IBM PowerPC 405EP 250 MHz processor
- 64MB SDRAM & 64 MB Serial Flash
- Battery Backup –  
5 minutes typical - shutdown begins within 10 seconds
- Real-time clock - 3 month backup max via battery

**Communications**

- 2 Ethernet Ports - 10/100 Mbps (RJ-45 Connectors)
- 1 RS 232 Port (9 pin D-shell connector)
- 1 RS 485 non isolated port (3 Screw Connector on base board)

**Operating System**

- QNX RTOS
- IBM J9 JVM Java Virtual Machine
- NiagaraAX

**Power Supply**

- JPWR-WWPM-US - 120 Vac, 50- 60 Hz. US
- JPWR-WWPM - 230 Vac, 50-60 Hz. Europe/Asia
- JPWR-WWPM - 230 Vac 50-60 Hz. UK

**Chassis**

- Construction: Plastic, din rail or screw mount chassis, plastic cover
- Cooling: Internal air convection

**Environment**

- Operating temperature range: 0° to 50°C (32°F to 122°F)
- Storage Temperature range: -20°C to 60°C (-4°F to 140°F).
- Relative humidity range: 5% to 95%, non-condensing

**Agency Listings**

- UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment", CE, FCC part 15 Class A, C-tick (Australia)



**JENEsys™ snap! thermostats – Technical Data**

**Models Available**

- 2 Heat / 2 Cool - VT7600B1020B
- 2 Heat / 2 Cool with Economizer - VT7605B1020B
- 3 Heat / 2 Cool - VT7600H1020B

**Theory of Operation**

The **JENEsys™ snap!** thermostats use a proprietary adaptive logic algorithm to control the space temperature. This algorithm controls the heating / air conditioning system to minimize overshoot while still providing comfort. It provides exceptional accuracy due to its unique PI time proportioning control algorithm, which virtually eliminates temperature offset associated with traditional, differential-based on/off thermostats.

**Features**

- Gas/Oil or Electric system compatibility for all type of applications.
- Remote indoor averaging sensing capability.
- Temperature averaging with 2, 3, 4, 9 or 16 sensors.
- Remote outdoor sensing capability for added flexibility.
  - System mode lockout.
  - Heat Pump balance point settings.
- Remote supply air sensor input for monitoring purpose.
  - System efficiency feedback.
- Lockable keypads for tamper proofing. No need for thermostat guards.
- Automatic frost protection to prevent costly freeze damage.
- Anti short cycle and minimum on/off runtime protection. Reduces wear and maximizes life span of mechanical equipment.
- 2 programming digital inputs for added flexibility.
- Programmable smart fan operation saves energy during night mode.
- Non-volatile EEPROM memory prevents loss of parameters during power shortage.
- Built-in default profile set-up for easier start-up and commissioning.
- Configurable SPST output relay on programmable models for lighting, exhaust fan or fresh air control.
- 0-10 Vdc economizer output for more retrofit opportunities.
  - Built-in dry bulb economizer logic using outdoor temperature sensor.
  - Input for supply/mixed air temperature sensor.

Please contact Lynxpring for more information about this product.