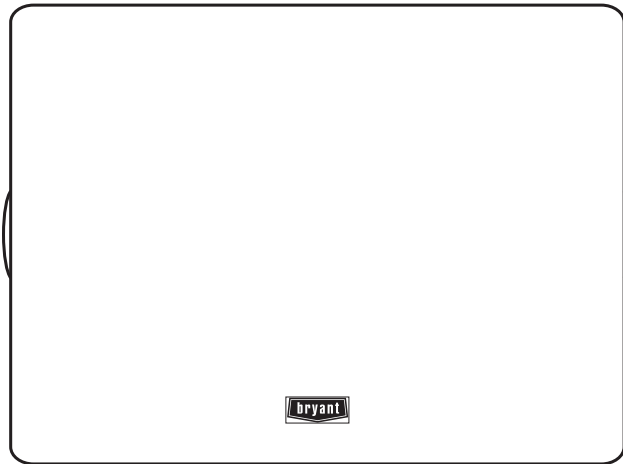


**SYSTXBBRCT01
EVOLUTION® SYSTEM
ETHERNET (CAT-5 WIRED) BROADBAND
REMOTE ACCESS MODULE**



Product Data



A97038

EVOLUTION® REMOTE ACCESS MODULE

Bryant Heating & Cooling Systems specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. The Evolution® System Ethernet Broadband Remote Access Module (CAT-5 B-SAM), part number SYSTXBBRCT01, adds further convenience, ease of use, and peace of mind to the power of the Evolution Control for the owner of this leading residential HVAC system.

For previous generation Evolution systems using the UID/UIZ wall controls, the CAT-5 B-SAM allows the user to access a system with up to 8 zones of comfort* via the Internet from a remote location outside the home, at any time. The user will be able to both monitor and modify settings through the Internet, alongside checking indoor temperature, outdoor temperature (when an outdoor air temperature sensor is installed), and indoor humidity. The CAT-5 B-SAM requires connection through a high-speed/broadband Internet-connected router, as well as registration on the www.MyEvolution.Bryant.com website. There may be a fee charged for remote access. See Computer Requirements, below, and the SAM Installation Instructions, available on www.HVACpartners.com, for more information.

Remote access and Internet connection of the newer generation Evolution® Connex™ systems is provided through the Wi-Fi versions of those products. The CAT-5 B-SAM does not provide remote access via the Internet for the newer Evolution Connex systems.

* Zoned applications require Evolution Zone Control, p/n: SYSTXBBUIZ01 with Version 14 operating system, or higher.

INDUSTRY LEADING FEATURES / BENEFITS

The CAT-5 B-SAM uses state of the art technology to control previous generation Evolution Systems (utilizing UID/UIZ wall controls) via the Internet. The system also offers enhanced peace of mind through email of routine and urgent maintenance notifications.

- Internet access into your Evolution UID/UIZ System
- Check your system status and change settings from anywhere
- Intuitive web navigation for non-technical customers
- Easy to program schedules with day and week-at-a-glance programming
- Override your system schedule when away from home
- Schedule a future vacation setting
- Emails for routine maintenance reminders
- Emails for urgent service reminders
- Dealer can diagnose a system problem remotely

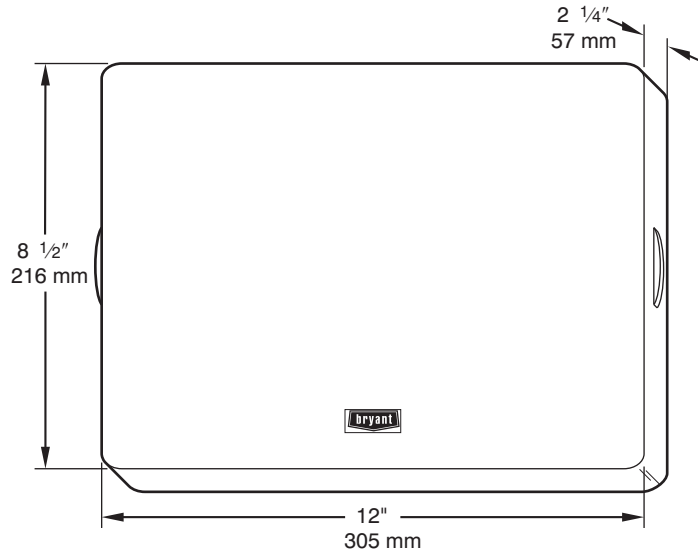
In addition, the SAM provides the following features for both previous generation Evolution UID/UIZ systems, and newer generation Evolution Connex systems:

- One CAT-5 B-SAM can handle up to two Evolution Systems
- 3-wire installation into the Evolution System communication bus
- Optional sensing port for float switches, alarms, etc., with alerts via email, for systems with remote access registration
- Optional Home Automation system interface capabilities through the included EIA RS-232 port. Communicate information through an open ASCII protocol.

MODEL NUMBER NOMENCLATURE

SYSTX	BB	RCT	01
Product Type	Brand	Connection	Package Qty
Evolution System	Bryant	CAT-5 (Wired) Broadband	Numeric

EVOLUTION[®]
SYSTEM



A07286

PRODUCT DATA INFORMATION

Applications

See the detailed application information provided in the latest version of the Installation Instructions and the SAM Remote Access Application Specification BEFORE selecting the CAT-5 B-SAM for any application.

The CAT-5 B-SAM is used differently for previous generation Evolution systems using the UID/UIZ wall controls, versus the newer Evolution® Connex™ systems.

For previous generation systems using the UID, UIZ wall controls, the CAT-5 B-SAM connects to a Local Area Network (LAN) router and allows remote connectivity for up to two Evolution systems within the same building. The Evolution system owner as well as authorized dealer can monitor and control the system via the Internet. The CAT-5 B-SAM communicates through the homeowner's cable or DSL Internet service. Broadband Internet service with a network router is required. The CAT-5 B-SAM is not compatible with dial-up Internet service. The SAM also provides an interface to Home Automation systems, utilizing either the RS-232 serial port connection, or the web page function, available on the Local Area Network (LAN) within the home or building.

The newer Evolution Connex systems utilize the SAM for ONLY interface to Home Automation systems, utilizing the RS-232 serial port connection. The Connex control DOES NOT support the SAM web page on the LAN, nor connection to the LAN or Internet through the CAT-5 B-SAM. Use the Wi-Fi versions of the Evolution Connex wall controls when connection to the Internet is desired.

NOTE: The SAM is designed for operation with the previous generation UID/UIZ wall control systems. As such, it will operate "as-is" with the newer Evolution Connex systems. Some features of the RS-232/ASCII home automation interface will NOT be available with the newer Evolution Connex systems. See the latest version of the SAM Remote Access Application Specification, available on HVACpartners, for more details on the home automation interface.

Computer Requirements (previous generation UID/UIZ systems, only)

The CAT-5 B-SAM uses a web-based application to control and monitor the Evolution System. This application will work with any PC operating system (Microsoft, Apple, Linux). The web-based application is optimized for use with Microsoft's Internet Explorer Version 6 and above. Other web browsers are compatible with some possible screen formatting issues. For more information on the web-based application, visit www.MyEvolution.Bryant.com.

Compatible Products

Requires User Interface SYSTXBBUID01 (Version 14 or higher) or User Interface SYSTXBBUIZ01 (Version 14 or higher) for zoned applications. The CAT-5 B-SAM provides both remote access through the Internet, and interface to home automation systems through the RS-232 communication port.

The CAT-5 B-SAM may be used with Evolution Connex model SYSTXBBECW01, SYSTXBBECC01 and SYSTXBBECN01 wall controls, with software Version 08 or later, for home automation interface applications through the RS-232 communication port, only. The CAT-5 B-SAM does NOT provide remote Internet access for these systems. Remote access is provided with the Wi-Fi versions of these products.

Remote Access Communication via the Internet (previous generation UID/UIZ systems, only)

The model SYSTXBBRCT01 CAT-5 B-SAM communicates to Bryant's servers through the homeowner's Internet service

provider. The CAT-5 B-SAM is connected to the homeowner's router through its built-in Ethernet network connection.

Each CAT-5 B-SAM has a specific serial number and MAC address. These numbers identify a profiled Evolution System when logging into www.MyEvolution.Bryant.com for the first time. See Fig. 1 for number location.

Home Automation Application

YOUR USE OF THE ASCII/RS-232 COMMUNICATION PORT ("ASCII PORT") IS AT YOUR SOLE RISK. ANY DATA OR INFORMATION DOWNLOADED OR OTHERWISE OBTAINED THROUGH THE USE OF THE ASCII PORT IS ACCESSED AT YOUR OWN DISCRETION AND RISK. YOU WILL BE SOLELY RESPONSIBLE FOR ANY MALFUNCTION OF, DAMAGE TO, OR INCOMPATIBILITY WITH YOUR COMPUTER SYSTEM, THE EVOLUTION SYSTEM, ANY THIRD PARTY DEVICE, OR OTHER HARDWARE, FIRMWARE OR SOFTWARE THAT RESULTS FROM YOUR USE OF THE ASCII PORT AND THE SAM REMOTE ACCESS APPLICATION SPECIFICATION.

BRYANT HEATING AND COOLING SYSTEMS, UNITED TECHNOLOGIES CORPORATION AND THEIR SUBSIDIARIES, AFFILIATES, OFFICERS, EMPLOYEES, AGENTS, PARTNERS AND LICENSORS:

- a. EXPRESSLY DISCLAIM ALL WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. NO ADVICE OR INFORMATION, WHETHER ORAL OR WRITTEN, OBTAINED BY YOU FROM BRYANT SHALL CREATE ANY WARRANTY;
- b. MAKE NO WARRANTY THAT (i) THE ASCII PORT WILL BE ERROR-FREE; (ii) THE QUALITY OF ANY INFORMATION OR OTHER MATERIAL OBTAINED BY YOU WILL MEET YOUR EXPECTATIONS; AND (iii) ANY ERRORS WILL BE CORRECTED; AND
- c. SHALL NOT BE LIABLE TO YOU FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, (i) DAMAGES FOR LOSS OF PROFITS, GOODWILL, USE, DATA OR OTHER INTANGIBLE LOSSES (EVEN IF BRYANT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES), RESULTING FROM USE, OR INABILITY TO USE THE ASCII PORT; (ii) MALFUNCTION OF, DAMAGE TO, OR INCOMPATIBILITY WITH ANY HARDWARE FIRMWARE OR SOFTWARE; OR (iii) ANY OTHER MATTER RELATING TO THE ASCII PORT, THIS SPECIFICATION OR THE PROOCOL.

Interface between the Evolution system and a home automation system is accomplished through the RS-232 communication port of the System Access Module (part number SYSTXBBRCT01), in conjunction with third-party software/hardware. Developing and supporting the home automation interface is the responsibility of the third-party home automation supplier. Refer to the latest version of the SAM Remote Access Application Specification, available through www.HVACpartners.com, for more information. The copyrighted application specification may be given to any home automation supplier to aid in their development of the interface between their system and the Evolution system.

Physical Characteristics

Dimensions: See drawing

Appearance: Plastic, white colored, textured

Electrical Characteristics

Input power: 24VAC, 40VA provided via an independent power source. An accessory 24VAC transformer is available to order through Replacement Components (SYSTXNNXFM01). DO NOT power the SAM through the Evolution system power supply.

The Remote Access Module utilizes a three-wire (ABC) connection to the Evolution System communication bus. There are ABC communication ports to support two Evolution systems provided. It is recommended that the following color code be used when wiring:

A - Green = Data A

B - Yellow = Data B

C - White = 24VAC (Common)

NOTE: The D wire (24vac power) from the communication bus should NOT be connected to the SAM.

The Ethernet port conforms to industry standards for Ethernet connections, utilizing an RJ-45 connector for the physical interface.

The detailed RS-232 communication port specifications are provided in the latest version of the SAM Remote Access Application Specification, available on www.HVACpartners.com. In general, the SAM has a female, DB-9 connector that contains standard +/-9V EIA RS-232 Rx/D, Tx/D, and GND connections. The SAM is configured as a subset DCE (Data Circuit-terminating Equipment) device.

Wiring Requirements

Input power: 24VAC, 40VA provided via an independent power source. An accessory 24VAC transformer is available to order through Replacement Components (SYSTXNNXFM01). The power supply is wired into the 24VAC+ and 24VAC- terminals on the CAT-5 B-SAM. DO NOT connect the power supply to the 3-wire communication connection (ABC) or connect to any other ABC(D) terminal on the Evolution system.

Evolution System Connection: Wire the ABC communication port(s) to the Evolution system communication bus(es). DO NOT connect the (D) wire from the Evolution system to the SAM. See Installation Instructions for details.

Network Connection: Standard Ethernet cable (Cat-5e, or equivalent) with RJ-45 connectors should be supplied between the CAT-5 B-SAM Ethernet port and the nearest physical connection to the home Local Area Network (LAN). Verifying connectivity and proper wiring connections is the responsibility of the installer. See the Installation Instructions for more detail.

Wiring material: Standard thermostat wire, 18 to 20 AWG, for power and the ABC communication bus.

Cat-5e cable, or equivalent, for connection between the RJ-45 Ethernet connector on the CAT-5 B-SAM and the home Local Area Network (LAN).

Environmental Requirements

Operating Temperature/Relative Humidity

Remote Access Module: 32F / 0C to 104F / 40C, 95% rh, non-condensing

Storage Temperature/Relative Humidity

Remote Access Module: -40F / -40C to 134F / 57C, 95% rh, non-condensing

EQUIPMENT

DESCRIPTION	ORDERING NUMBER
Remote Access Module CAT –5 Connection	SYSTXBBRCT01

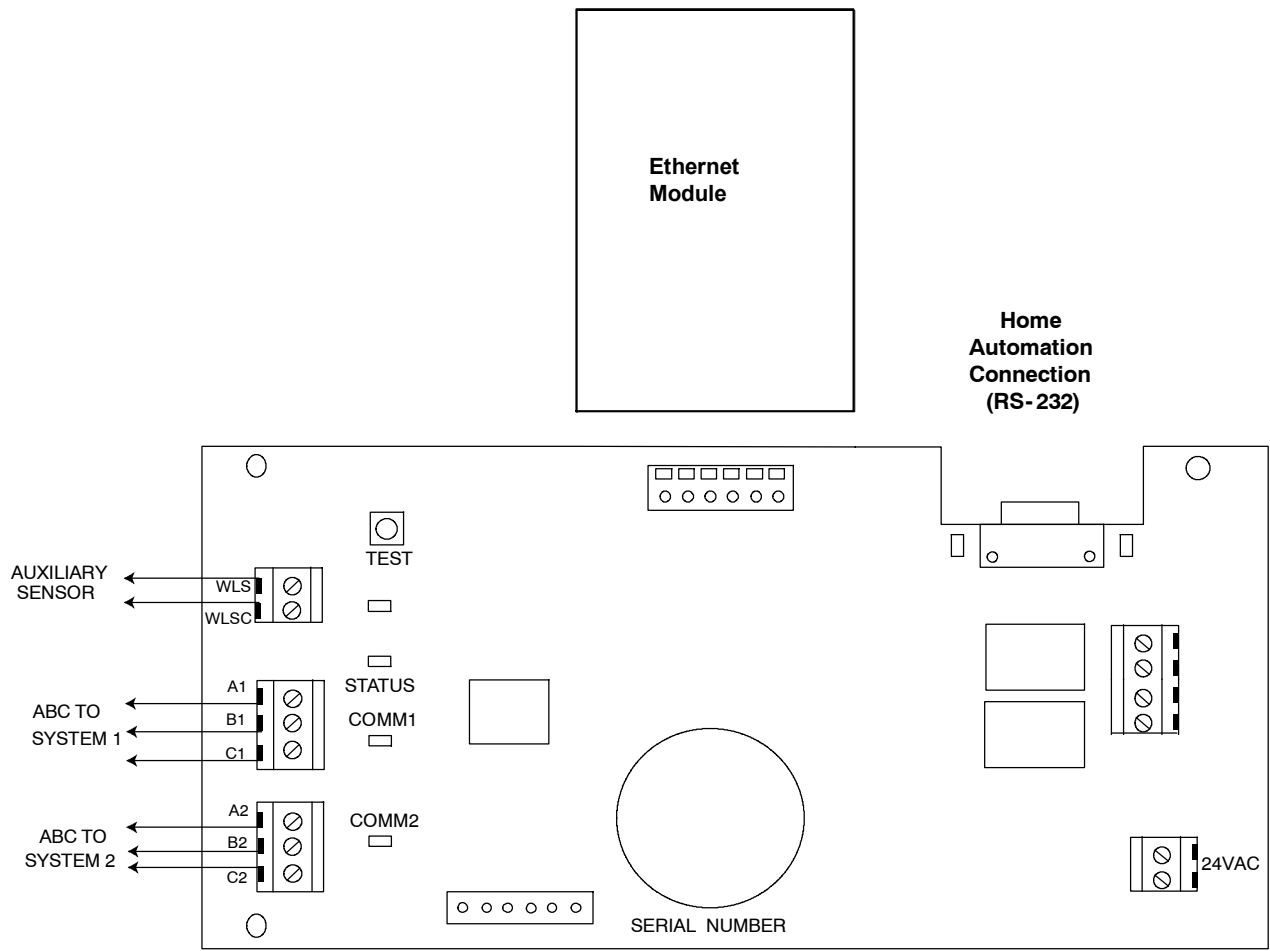


Fig. 1 - CAT-5 Module Control Board

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