

Free Programmable And Expandable

Ethernet Port

SCC-420

Multi Protocol

Touch Screen Ready

Real Time Clock

## 15 POINT FLEXIBLE I/O CONTROLLER (MULTI PROTOCOL)

### OVERVIEW

Looking for a low cost premium, **fully programmable** BAS controller that can support multiple protocols at the same time? Then **SCC-420** is the perfect fit. Control virtually any terminal unit application such as: Rooftop Units, Fan Coil Units, Heat Pumps, Unit Ventilators, Air Handlers, and Plant Control. Seamlessly and easily pass data between **BACnet/IP**, **LON**, and **Modbus** networks.

The Circon™ **SCC-420** combines easy-to-configure I/O with flexible protocol gateway functionality, all at an incredible price per point and all as standard features.

Circon's acclaimed Catalyst® graphical programming tool is used to freely program **SCC-420** for an exceptional application and gateway flexibility.

### APPLICATIONS

Use **SCC-420** to control any unitary equipment or implement complex plant control with its built in I/O points.

Read/Write and pass data between BACnet, LON, and Modbus networks. Mathematically or logically manipulate each data before transferring to other networks.

Circon Catalyst includes over 150 function/program blocks with support to create your own custom blocks. EBAC will also provide you with free sample program library which can readily be loaded into any **SCC-420**.

With native and built-in support for touch screens, mobile access devices, expansion I/O modules, sensors, utility gas/electric/water meters, VFDs and more can be quickly added to **SCC-420**.

EBAC's Windows-based configuration and programming software for the **SCC-420** is available at no charge, and are fully compatible with Echelon's LNS® platform.

### ORDERING INFORMATION

Part number: Coming Soon



### FEATURES

- Powerful, industry-leading 32-bit ARM processor
- Incredible price per point
- Onboard scheduling, trending, alarming
- Fully programmable with flexible and easy-to-use Circon Catalyst® programming tool
- High performance BACnet/IP capability with support for variety of analog, digital and multi-state server and client objects with create as you go feature. Built in BACnet browser.
- High performance LonTalk capability with support for variety of static and dynamic network variables including structured variables with create as you go feature.
- Built-in RS-485 expansion port with support for Modbus RTU protocol
- Highly flexible protocol gateway functionality
- 5 relay outputs and 3 analog outputs simplify connecting to a variety of digital, floating and analog-controlled actuators
- 5 resistive inputs connect to a variety of sensors
- 2 voltage inputs for CO2, current monitoring, etc.
- Lonmark 3.4 certified



**I/O CAPABILITY**

7 Inputs: Four 10 kΩ thermistor, Precon curve: Type II model 24 or Type III model 3, or dry contact  
 One 1 kΩ RTD or dry contact  
 Two voltage, 0-10 VDC

3 Analog Outputs: 0-10 VDC, maximum drive of 100 mA per output

5 Digital Outputs: Dry contact relay: 2.0 A maximum at 24 VAC or 24 VDC

**HARDWARE**

Processor: ARM9 @ 400MHz

Memory: 64 MB Flash, 64MB RAM

EIA-709 (LonTalk) Port: TP/FT-10 @ 78 kbps

Serial Ports: 1 RS-485 expansion port

Ethernet Ports: 1 RJ-45 10/100 Ethernet

**POWER SUPPLY**

Controller: 2.0 A, 24 VAC, 50-60 Hz, or 24 VDC

Fuse: 2.0 A slow-blow (Bussmann GMD-2.0A, Littelfuse 23902.0A)

Rectifier: Half-wave

**MECHANICAL**

Operating Temperature: 32°F to 122°F (0°C to 50°C)

Operating Humidity: 5% to 95% RH (non-condensing)

Weight: 15 oz. (420 grams)

Enclosure Dimensions: 1.0" x 5.6" x 6.1" (25.4mm x 142.2mm x 155.6mm)

Enclosure Material: Metal

Mounting: Four sheet metal screws

**AGENCY LISTINGS AND REGULATORY COMPLIANCE**

Class II device (when powered by a class II supply)

CSA(C US) 22.2 #205-M1983, #950-M89

Part 15, Class B of the FCC Rule for Radio Frequency Devices

EMC Directive 89/336/EEC



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Youtube: [Circon BAS](https://www.youtube.com/CirconBAS)



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