

# 5820

## GPI/Serial Interface

The 5820 GPI/Serial Interface module extends the capability of the Avenue Control System enabling third party equipment to control Avenue modules. The 5820 provides General Purpose Interface control (GPI contact closure) over modules located anywhere in an Avenue system. It also provides RS-232/RS-422 serial interface access for use with show controllers and automation systems.

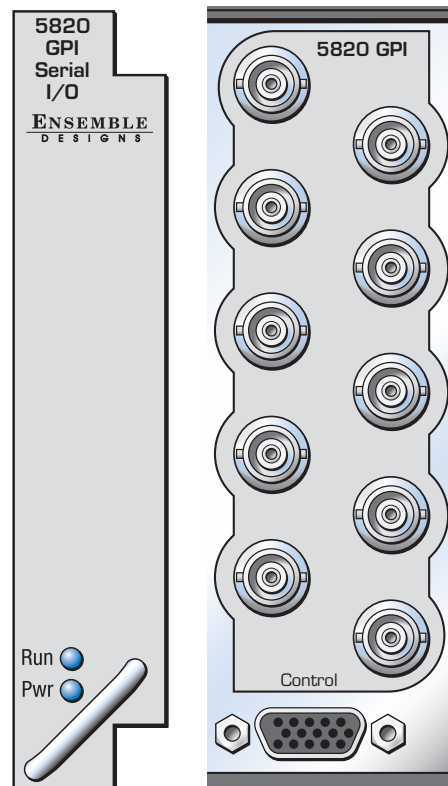
To use the 5820, just install it in any Avenue frame in the system and connect the 5820's GPIs or serial interface to your automation system or other third party device. Using the Avenue Control System, the 5820's GPIs and serial inputs can be mapped to any Avenue module in the system. When a GPI or serial command is received by the 5820, a message is sent to the corresponding Avenue module. That module then recalls the specified memory register.

The 5820 module takes full advantage of the Avenue Control System and is able to communicate with any other module located in any Avenue frame. Using M2M™ (Module To Module) communication, the 5820 acts on GPI contact closures, or serial commands, by sending configuration recall commands to another module. From the serial interface port of the 5820, an external device can also activate the same recall functions. Supporting both RS-232 and RS-422 interfaces, the simple ASCII-based protocol allows easy interconnection to any control system.

The 5815 is an optional 1RU control panel that serves as a shot box. It has eight illuminated status push buttons that can also be used for manual override and status in automated systems. Configuration and monitoring of the 5820 is also available through an Avenue Control Panel and Avenue PC software.

### Features

- **Enables third party equipment to recall memory registers of any Avenue module**
- **GPI and RS-232/RS-422 control of any Avenue module**
- **Eight GPI ports, each independently configurable**
- **Serial interface for use with show controllers and automation systems**
- **One 5820 module can serve multiple purposes, multiple modules**
- **Easily integrate Avenue into existing control systems**



**Input Signal**

Number	Eight GPI, One RS-232/RS-422
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**General Specifications**

Power Consumption	<5.0 watts
Temperature Range	0 to 40°C ambient (all specs met)
Relative Humidity	0 to 95%, noncondensing
Altitude	0 to 10,000 ft
Fusing	1.5 Amp PTC resettable fuse

