

Dimensions (HWD) and Weight:

- Axcent³: 3.47" x 17.0" x 3.0" (88.1 mm x 432 mm x 76.2 mm) and is 2.5 lbs (1.1 kg)
- Axcent³ Pro: 3.47" x 17.0" x 13.65" (88.1 mm x 432 mm x 76.2 mm) and is 5.6 lbs (2.6 kg) without Axxess control cards

Power Requirement:

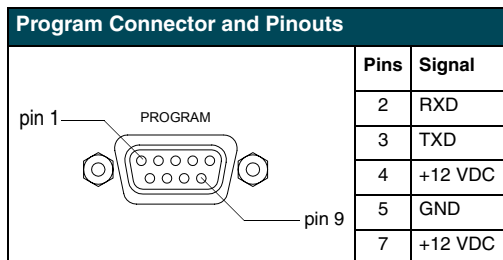
- Axcent³: 600 mA @ 12 VDC
- Axcent³ Pro: 650 mA @ 12 VDC (without Axxess control cards)

Memory:

- Volatile memory: 128Kbx16 (user-modifiable)
- Non-volatile memory: 256Kbx16 (user-modifiable)

PROGRAM PORT (Front and Rear Panels):

PROGRAM port: DB-9 (male) connector for system programming. Connect a programming cable to the PROGRAM connector on the controller. Use the PROGRAM connector to download Axxess programs, and set up control communication options using the OpenAxxess software program. See the table below.



AXlink Indicator (Front and Rear Panel):

Green LED that shows power and AXlink communication activity. Blink patterns include:

- Off - No power or the controller is not functioning properly.
- 1 blink/second - Normal operation. Device numbers match the programmed device numbers in the Axxess program.
- 2 blinks/second - Device numbers do not match the Axxess program, a device is not present, or a device is not set to the right number.
- 3 blinks/second - AXlink bus error. Check all AXlink bus connections.
- Full on - Axxess program is not present and there is no AXlink activity.

Slots 1 - 4 (Axcent³ Pro Only - Front and Rear Panel):

Four 16-pin connectors for Axxess Control Cards (See FIG. 1).

- Device numbers: 15 - 18
- Channels: Card dependent



FIG. 1 Axcent³ Pro Access Control Card connector

Preparing and Connecting Captive Wires:

- Strip 0.25 inch of wire insulation off all wires.
- Insert each wire into the appropriate opening on the connector according to the wiring diagrams and connector types.
- Turn flat-head screws clockwise. Do not over-torque the screw; doing so can bend the seating pin and damage the connector.

RS-232/RS-422/RS-485 Connectors (Rear Panel):

- The RS-232 range is 50' (15.24 m) max.
- RS-232/RS-422/RS-485 ports: Six 9-pin (male) D-sub, RS-232/422/485 XON/XOFF, CTS/RTS, 300, 200 baud.
- Device numbers: 1 - 6
- Channels: 1 - 255; The RS-232/422/485 ports provide CTS input feedback on channel 255 when you use the CTSPSH Send_Command.

The following table lists the connector pins, signal types, signal functions, wiring, and baud configurations.

DB-9 Pinouts and Wiring and Baud Configurations					
Pin	Signal	Function	RS-232	RS-422	RS-485
1	RX-	Receive data		X	X (strap to pin 9)
2	RXD	Receive data	X		
3	TXD	Transmit data	X		
4	TX+	Transmit data		X	X (strap to pin 6)
5	GND	Signal ground	X	X	
6	RX+	Receive data		X	X (strap to pin 4)
7	RTS	Request to send	X		
8	CTS	Clear to send	X		
9	TX-	Transmit data		X	X (strap to pin 1)

The X's show where to terminate the wires on the DB-9 connector.

AXlink/PWR Connector (Rear Panel):

4-pin connector for AXlink data and power, and 2-pin connector for external 12 VDC power supply. Connect the AXlink connector to an external AXlink device, as shown in FIG. 2.

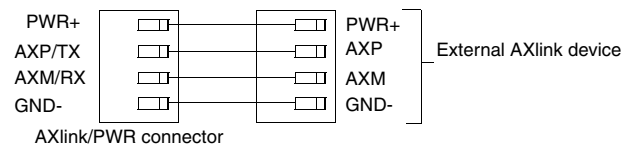


FIG. 2 AXlink/PWR data and power wiring diagram

Connect the 4-pin AXlink connector to an external AXlink device; connect the 2-pin PWR connector to the separate 12 VDC power supply as shown in FIG. 3.

Make sure to connect only the GND wire on the AXlink/PWR connector when using a separate 12 VDC power supply. **Do not** connect the PWR wire to the AXlink connector's PWR (+) opening.

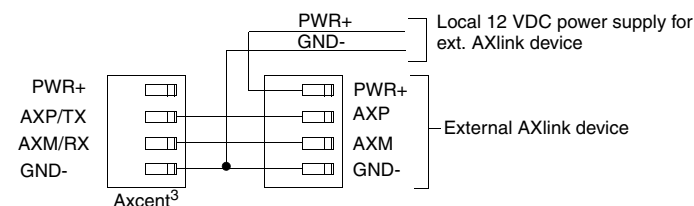


FIG. 3 AXlink/PWR and optional 12 VDC power supply wiring diagram

Relay Connectors:

Two 8-pin connectors, 750 mA, 28 VAC/24 VDC (normally open).

- Device number: 7
- Channels: 1 - 8

Connect up to 8 independent external relay devices to the 16-pin RELAYS connector, as shown in FIG. 4. Use A for common and B for output. Each relay is isolated and normally open. A metal connector strip is also provided to common multiple relays.

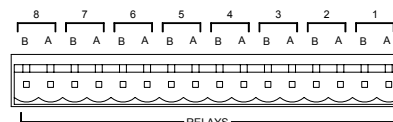


FIG. 4 RELAY 16-pin connector

IR/SERIAL/DATA Connectors:

12-pin male connector that supports: IR, IR/Serial or one-way data communication.

- Device numbers: 8 - 13
- Channels: 1 - 254; 6 IR/Serial/Data control ports that support high-frequency carriers up to 1.14 MHz, and 1-way data, 300-38, 400 baud (0 - 5 VDC levels only).

Connect up to 6 IR, IR/Serial, and/or DATA (transmit only, 0 - 5 VDC levels only) devices to the 12-pin IR/SERIAL/DATA connector shown in FIG. 5. You can connect a CC-IRC Infrared Emitter, external serial device, or data 0 - 5 VDC device using a 2-pin captive-wire.

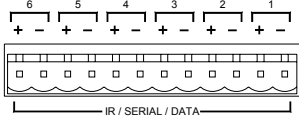


FIG. 5 IR/SERIAL/DATA 12-pin connector

Input/Output Connectors:

8-pin connector, I/O 1- 6, Common, +12 VDC power tap 200 mA, contact closure or TTL logic inputs.

- Device number: 14
- Channel numbers: 1 - 6

Connect up to 6 input/output (I/O) devices to the INPUT/OUTPUT 8-pin connector, as shown in FIG. 6. A contact closure between GND and an I/O port is detected as a PUSH. When used for a voltage input, the I/O port detects a low (0 - 1.5 VDC) as a PUSH, and a high signal (3.5 - 5 VDC) as a RELEASE. When used for an output, each I/O port acts as a switch to GND and is rated at 200 mA @ 12 VDC.

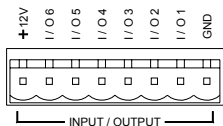


FIG. 6 INPUT/OUTPUT 8-pin (male) connector

Setup Programming Commands:

PROGRAM Port commands can be accessed in the terminal by typing "?". For detailed programming information, refer to the accompanying manual.

Send_Commands for RS-232/422/485 Mode	
'HSOFF'	Disables hardware handshaking (default).
'HSON'	Enables hardware handshaking.
'XOFF'	Disables software handshaking (default).
'XON'	Enables software handshaking.
'Set Baud'	<p>Syntax:</p> <pre>\SET BAUD (Baud), (Parity), (Data), (Stop) [485 (DISABLE/ENABLE)]'</pre> <p>Variables:</p> <p>Baud = 300, 600, 1200, 2400, 4800, 9600, 19200, 38400 or AUTO Parity = N (none), O (odd), E (even), M (mark), S (space) Data = 7 or 8 bits Stop = 1 or 2 bits Disable = disables RS-485 mode, and enables RS-422 Enable = enables RS-485 mode, and disables RS-422</p> <p>Example:</p> <pre>SEND_COMMAND RS232_1, 'SET BAUD 9600,N,8,1,485 ENABLE'</pre> <p>Sets the RS232_1 port's communication parameters to 9,600 baud, no parity, 8 data bits, 1 stop bit, and enables RS-485 mode.</p>
'Get Baud'	<p>Syntax:</p> <pre>\GET BAUD'</pre> <p>Gets the RS-232/422/485 port's current communication parameters. The port sends the data through the master's PROGRAM port.</p> <p>Example:</p> <pre>SEND_COMMAND RS232_1, 'GET BAUD'</pre> <p>System response example:</p> <pre>Device 1, 38400, N, 8, 1, 485 DISABLED</pre>

Send_Commands for the IR/Serial/Data Ports	
'CAROFF'	<p>Disables carrier from responding until a CARON command is received. This command overrides active software settings.</p> <p>Example:</p> <pre>SEND_COMMAND IR_1, 'CAROFF'</pre> <p>Stops transmitting the IR carrier signal.</p>
'CARON'	<p>Enables the carrier to respond according to active software settings.</p> <p>Example:</p> <pre>SEND_COMMAND IR_1, 'CARON'</pre> <p>Starts transmitting the IR carrier signal.</p>
'POF'	<p>Sends IR function 28 (if available) or 9 to turn device power off. After 3 attempts, if the linked I/O channel still detects a power-on status, the controller starts processing stored buffer commands. Then, if another IR function 28 or 9 fails to turn the external device's power off, the controller sends a PUSH and RELEASE of channel 248 and generates a power failure error. If the device is turned on manually, this command turns the external device's power off unless a PON (power on) or POD (disable POF) command is received. Refer to the SET IO LINK command.</p>
'PON'	<p>Sends IR function 27 (if available) or 9 to turn device power on. After 3 attempts, if the linked I/O channel still detects a power-off status, the controller starts processing stored buffer commands. Then, if another IR function 27 or 9 fails to turn the external device's power on, the controller sends a PUSH and RELEASE of channel 248 and generates a power failure error. If the device is turned off manually, this command turns external device power on unless a POF (power off) or POD (disable PON) command is received.</p>
'SET MODE'	<p>Sets the IR/Serial/Data port for IR-, Serial-, or Data-controlled devices that connect to the port.</p> <p>Syntax:</p> <pre>\SET MODE (MODE)'</pre> <p>Variables:</p> <p>Mode = IR, SERIAL, or DATA</p> <p>Example:</p> <pre>SEND_COMMAND IR_1, 'SET MODE IR'</pre> <p>Sets the IR_1 port to IR mode so an IR-controlled device can be connected to the port.</p>
'SET IO LINK'	<p>Links an IR/Serial/Data port to an input/output (I/O) channel for use with PON and POF commands. The I/O channel can sense 0 - 5 VDC using a PCS or PCS2 Power Current Sensor. Set the I/O channel to 0 to disable the link function.</p> <p>Example:</p> <pre>SEND_COMMAND IR_1, 'SET IO LINK 1'</pre> <p>Sets the IR_1 port link to I/O port 1. The IR port uses the specified I/O input as power status for processing PON and POF commands.</p>

Send_Commands for Input/Output Ports	
'Set Input'	<p>Syntax:</p> <pre>\SET INPUT (Port) (State)'</pre> <p>Sets the input channel's active state. An active state can be high (logic high) or low (logic low or contact closure). Channel changes, pushes, and releases generate reports based on their active state.</p> <p>Variables:</p> <p>Port = 1 - 6 State = High or Low</p> <p>Example:</p> <pre>SEND_COMMAND IO, 'SET INPUT 1 HIGH'</pre> <p>Sets I/O port to detect a high state change.</p>
'Get Input'	<p>Syntax:</p> <pre>\GET INPUT (Port)'</pre> <p>Gets the input channel's active state. An active state can be high (logic high) or low (logic low or contact closure). Channel changes, pushes, and releases generate reports based on their active state.</p> <p>Variables:</p> <p>Port = 1 - 6</p> <p>Example:</p> <pre>SEND_COMMAND IO, 'GET INPUT 1'</pre> <p>Gets I/O port's active state.</p>