

3B Series Resources

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3B Series Accessories

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To facilitate the design process for designers who are not embedding the 3B Series modules into their own custom backplanes and panels, the following optional accessories can simplify and expedite their designs.

I/O Cable

The optional **Model AC1315** 2-foot, 26-pin flat ribbon cable includes two female connectors. The cable connects directly to either the P1 or P2, 26-pin I/O system connectors supplied on the 3B Series [backplane](#) and can be used with the optional [AC1324](#) interface board. The cable and interface board connect the 3B Series backplanes to analog I/O boards compatible with all of the leading industry buses.

AC1315[Order Now](#) Model AC1315[back to top](#)

Power Connector

The **Model AC1352** 6-pin female optional connector mates with the power connector, P3, on the 3B01, 3B02 and 3B03 [backplanes](#), to supply regulated ± 15 V DC and +24 V DC power to the backplanes. Using the AC1352 connector to bring external regulated power to a 3B Series backplane eliminates the need for an on-board AC/DC or DC/DC converter.

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Current Conversion Resistor

The **Model AC1342** 100 [oh](#), 0.1%, 1/4 watt, 20 ppm/°C resistor is supplied with each [3B32](#) current input module to convert input current to a voltage; an additional AC1342 can be optionally ordered as a spare.

[AC1342](#)

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Interface Board for Analog I/O

The **Model AC1324** optional universal interface board includes a 26-pin I/O connector and 26 I/O screw terminals. The 26-pin connector accepts the AC1315 or CAB-01 cables from a 3B Series Model 3B01, 3B02 or 3B03 [backplane](#) and provides 26 screw terminals for interconnecting to any analog I/O subsystem, such as a programmable controller. It can be mounted either at the back of the [AC1330](#) rack-mount kit (standoffs are included and should be used) or in a snap track.

[AC1324](#)

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Power Supply Jumpers

The optional **Model AC1344** spare set of 10 jumpers can be used on the 3B01, 3B02 and 3B03 [backplanes](#) to configure the W1, W2, W3 and W4 power supply and grounding options. W1 and W3 force Pin 25 to power supply common; W2 provides external voltage sensing to enable the 3B Series Subsystem, with Analog Devices' RTI boards, to increase noise rejection by measuring in pseudo-differential mode. W4 ties the ±15 V DC power supply common to the +24 V DC power supply common, required when a +24 V DC power supply is used.

[AC1344](#)

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Kits for User-Designed Modules

The optional **Model AC1350** kit contains an individual blank case, connectors and PC vector board to enable the construction of a user-designed 3B-type module. The **Model AC1351** kit includes only a case and connectors.

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Mounting Kits - Rack-Mount

The optional **Model AC1330** is a two-piece metal optional mounting to enable Models 3B01, 3B02 or 3B03 [backplanes](#) to be fitted into a 19-inch rack, requiring a 19-inch x 4.7-inch area. The bottom plate has threaded inserts for mounting any of the three backplanes using four screws that are shipped with each backplane. The AC1330 top piece provides a rigid module hold-down and is secured to the bottom piece with two quarter-turn fasteners.

AC1330

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Mounting Kits - Surface-Mount

The **Models AC1331, AC1332 and AC1333** optional surface-mount kits enable any of the [backplanes](#), Models 3B01, 3B02 or 3B03, respectively, to be easily mounted in a panel or NEMA enclosure.

AC1331

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AC1332

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AC1333

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Power Supplies and Power Cords

The 3B Series Subsystem requires either an optional AC/DC power supply or an optional DC/DC converter mounted on the backplane. External ± 15 V DC and +24 V DC power supplies can also be used.

AC1300

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The **Models AC1300 and AC1301** plug-in, modular, encapsulated AC/DC, regulated, ± 15 V DC power supplies can be directly mounted on the 3B Series [backplanes](#), with the supplied retainer clip and hardware. This mounting features the ability for each power supply to be easily removed from the backplane.

AC1301

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AC1302

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The **Model AC1302** plug-in modular DC/DC converter, accepts a +24 V DC input and provides a regulated ± 15 V DC output to enable an external +24 V current loop source to supply all power to the backplane, such as in a factory data collection environment. The external +24 V DC supply must be capable of handling the desired number of current loop outputs as well as powering the AC1302.

The **Model AC1307** plug-in modular AC/DC supply provides both regulated ± 15 V DC outputs and an unregulated +24 V DC output.

[AC1307](#)

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After connecting a power cord, no additional external components are required with these power supplies. Simply mount the unit on the backplane and connect power. For the AC/DC supplies, connect **Model AC1340-D** power cord to the AC POWER terminals, TB33. To provide power to Model AC1302 DC/DC, connect **Model AC1341** power cord to the DC POWER CONNECTOR, P3. Refer to the [Power Supply](#) section for complete electrical and mechanical specifications on these power supplies.

[AC1340-D](#)

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[AC1341](#)

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Ranging Card

The **Model AC1310** optional plug-on module ranging card contains user-supplied resistors to customize the zero and span for the user-programmable 3B models (e.g. 3B30-00). To facilitate selecting resistors, either the equations shown in the 3B Series User Manual or a Windows® program, [3B-CUSTOM](#), available on a 3.5-inch diskette, calculate resistor values based on the user-desired input/output ranges.

[AC1310](#)

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User Manual

Model AC1346 is a complete reference manual providing detailed information on setting up the 3B Series subsystem. Complete schematic diagrams are provided on each of the backplanes. The Model AC1346 manual is included with each 3B Series [backplane](#); additional copies must be optionally ordered as a separate item.

[AC1346](#)

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