

Application Note

BE1-FLEX Field Configuration Change Process

Learn how to re-configure your BE1-FLEX with these step-by-step instructions. Do you need more from your FLEX? The BE1-FLEX is highly customizable, even after purchase. By switching out a board or firmware package, you can upgrade your existing product to any desired style.

Upgrade Process

Follow these steps to upgrade your device. Details for an example upgrade are included below each step in italics. For more support, contact the [Basler Sales team](#).

Step 1: Determine your target style, and verify that the target style is valid using the Style Configurator at flex.basler.com or within BESTCOMSPPlus®.

*Original: BE1-FLEX K-N0N0A2C5-N5-E5-1N0-B00N-00
Target: BE1-FLEX K-T3L6N0A2-W9-E5-2N0-E01N-00*

Step 2: Determine the necessary hardware boards and terminal kit type for the upgrade.

The target style requires the following boards: T3, L6, W9, and Power Supply Board Option 2. The terminal kit selection is screw compression-type for the non-analog boards. These boards end in "-C."

Determine the necessary protection package and/or protocol package for the upgrade.

The original style has protection package B and protocol package 00. The target style will need protection package E with protocol package 01.

Step 3: Determine hardware pricing. Pricing can be obtained through [your local Basler representative or territory manager](#), or on the Basler website.

The following boards are needed for this upgrade: ANLB-T3, ANLB-L6, IOAB-W9-C, and PWRA-2-C.

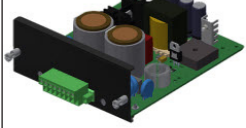
BE1-FLEX Analog Board (ANLB-T3): 4 channel voltage, 300 Vac max, 4 channel current, 1 or 5 A	
	BE1-FLEX Analog Board (ANLB-T3): 4 channel voltage, 300 Vac max, 4 channel curre...
	View product page
BE1-FLEX Power Supply Board (PWRA-2-C): 250 Vdc, 240 Vac, with compression terminals	
	BE1-FLEX Power Supply Board (PWRA-2-C): 250 Vdc, 240 Vac, with compression termi...
	View product page

Figure 1 - Example Hardware Listings

Step 4: Determine firmware pricing. To change protection or protocol packages, pricing can be obtained through [your local Basler representative or territory manager](#). This type of pricing requires a manual quote. The price will be the difference between the target and original option prices, plus a flat administrative fee (subject to change). Credit is not provided if the cost of the updated option is lower than the original.

Suppose the administrative fee is \$75, Protection Package B costs \$50, Protection Package E costs \$300, Protocol Package 00 costs \$0, and Protocol Package 01 costs \$175. The total cost is calculated as follows:

*Protection package change: $\$300 - \$50 = \$250$
Protocol package change: $\$175 - \$0 = \$175$
Total cost: $\$250 + \$175 + \$75 = \500*

Step 5: Place the order through your standard sales channel. Hardware will be processed and delivered as a standard hardware purchase. Firmware-based changes will be emailed.

Step 6: Once the parts and/or firmware have been received, install them in your device. Reference the *Hardware Configuration* chapter in the BEI-FLEX instruction manual for a detailed upgrade process.

Board reconfiguration: Power down the BEI-FLEX. Replace the boards. In this example, move T3 into slot 7, L6 into slot 6, the original A2 board from slot 5 to slot 4, W9 board into slot 3, and power supply board 2 into slot 1.

Firmware update: Apply power to the BEI-FLEX, and establish communication via BESTCOMSPlus®. Updating the style may delete the existing settings, so download and save settings prior to updating the style. From the Communication menu, press Upload System Files. Select the firmware file provided by Basler Electric and upload.

The upgrade may cause the relay trouble LED to light due to a style mismatch. To clear this alarm, upload a valid settings file for the new relay configuration. Some changes may only require downloading the settings, viewing the Style Configuration in the settings, and then uploading the newly configured style back into the settings. Users should also adjust the settings as desired to utilize the new functionality before uploading the new file.

Support

For more support, contact the Basler Electric team at www.basler.com/Support.

BEI-FLEX Loose Style Option Parts

Analog Boards	Power Supplies
ANLB-L6) 4 channel current (1 or 5 A phase and ground)	PWRA-1-C) 48/125 Vdc, 120 Vac, Compression Terminals
ANLB-A9) 4 channel current (1 or 5 A phase and SEF ground)	PWRA-1-S) 48/125 Vdc, 120 Vac, Spring Terminals
ANLB-X6) 7 channel current (1 or 5 A phase and ground)	PWRA-2-C) 250 Vdc, 240 Vac, Compression Terminals
ANLB-L2) 7 channel current (1 or 5 A phase and SEF ground)	PWRA-2-S) 250 Vdc, 240 Vac, Spring Terminals
ANLB-X9) 4 channel voltage (300 Vac max, 3 phase, 4 wire plus aux)	PWRA-3-C) 24 Vdc, Compression Terminals
ANLB-T3) 4 channel voltage (300 Vac max), 4 channel current (1 or 5 A phase and ground)	PWRA-3-S) 24 Vdc, Spring Terminals
ANLB-M0) 4 channel voltage (300 Vac max), 4 channel current (1 or 5 A phase and SEF ground)	
I/O Boards	Blank Panel Cover Kit
IOAB-W9-C) 5 input, 2 output form A, 2 output form C, Compression Terminals	BPCX-A) Covers one board slot
IOAB-W9-S) 5 input, 2 output form A, 2 output form C, Spring Terminals	
IOAB-N5-C) 12 Input, six sets of 2 with shared commons, Compression Terminals	
IOAB-N5-S) 12 Input, six sets of 2 with shared commons, Spring Terminals	
IOAB-U4-C) 7 analog inputs, (1) mVdc input (50 or 100 mV), Compression Terminals	
IOAB-U4-S) 7 analog inputs, (1) mVdc input (50 or 100 mV), Spring Terminals	
IOAB-C5-C) 8 outputs (5 form A, 3 form C), Compression Terminals	
IOAB-C5-S) 8 outputs (5 form A, 3 form C), Spring Terminals	
IOAB-A2) 7 RTD, (1) mVdc input (50 or 100 mV)	
Communication Boards	HMI
COMB-E5-C) Ethernet - (1) Copper (with 3 input, 2 output form A, 1 output form C), Compression Terminals	HMIB-MS) Medium K case HMI
COMB-E5-S) Ethernet - (1) Copper (with 3 input, 2 output form A, 1 output form C), Spring Terminals	
COMB-P7) Ethernet - (1) Fiber	
COMB-W2-C) Ethernet - (2) Independent Copper (with 3 input, 2 output form A, 1 output form C), Compression Terminals	
COMB-W2-S) Ethernet - (2) Independent Copper (with 3 input, 2 output form A, 1 output form C), Spring Terminals	
COMB-G3) Ethernet - (1) SFP Copper, (1) Redundant SFP Copper and (1) Independent SFP Copper	
COMB-H8) Ethernet - (1) SFP Fiber, (1) Redundant SFP Fiber and (1) Independent SFP Fiber	
COMB-H7) Ethernet - (1) SFP Fiber, (1) Redundant SFP Fiber and (1) Independent SFP Copper	
	Protection
	PROT-B) Basic Current Only
	PROT-C) Basic Voltage Only
	PROT-D) Intermediate
	PROT-E) Enhanced
	Protocol
	CPRO-01) Package 1
	CPRO-02) Package 2



Highland, Illinois USA
Tel +1 618.654.2341
Fax +1 618.654.2351
email: info@basler.com

Suzhou, P.R. China
Tel +86 512.8227.2888
Fax +86 512.8227.2887
email: chinainfo@basler.com

