

## General Information

**Q. How can the 690+ be configured?**

A. The 690+ can be configured using the 4-button keypad or ConfigEd Lite software.

Note: There are common setup macro configurations enabled through the keypad stored on the control PCB.

**Q. What are the modes of operation for the 690+?**

A. The special modes are V/Hz, Sensorless Vector and Closed-Loop Flux Vector Control.

Note: V/Hz is for general purpose and variable torque applications.

Sensorless Vector is suitable for any general purpose and moderate performance applications.

Closed-Loop Flux Vector is for high performance applications such as converting, spindles and lathes, extruders, web tension controls and historically DC applications.

**Q. What Eurotherm drives does the 690+ replace?**

A. The 690+ replaces the 605, 584SV, and 620 Vector product lines.

**Q. Can a 690+ perform electronic line shafting like a 620L?**

A. Yes, the master drive needs an encoder feedback techbox and the follower drive requires a system expansion board.

**Q. Are there any differences between common bussing a 690+ compared to a 620 drive?**

A. No, remember the application requires interlocks and fusing for drive protection.

**Q. What is common bussing?**

A. Common bussing is tying the DC bus of AC drives together to allow regenerating and motoring drives to share energy.

**Q. Can a Link Technology Box be transferred from a 590+ to a 690+?**

A. All Technology Boxes frame C and above for the 690+ are common with the 590+ DC product.

Note: The Technology Box must be reprogrammed for the new drive.

**Q. Where can I receive a 690+ manual?**

A. A manual ships with the drive. It can be downloaded by visiting <http://www.eurothermdrives.com/doc/product%20manuals1.htm>.

**Q. Where can I receive the ConfigEd Lite software?**

A. You can visit [www.eurothermdrives.com/software/software.htm](http://www.eurothermdrives.com/software/software.htm).

Note: The web address is intended for updates to CE Lite.

**Q. What options can be added to the 690+?**

A. Speed Feedback, Communications, Remote mounting kit for the keypad, EMC compliant filters, and Systems Expansion Module are options for the 690+.

Note: Refer to application note's 6100 and 6200 on the fax back system for Speed Feedback and Communication option part numbers and associated material.

**Q. What are the types of Speed Feedback for the 690+?**

A. The Speed feedback option for the 690+ is Encoder.

Note: Refer to application note 6100 on the fax back system for the part number and associated material.

If you have questions, please call the Product Support Group at (704) 588-3246.



**Q. What are the Communication options for the 690+?**

A. The 690+ has Communication Techboxes for Link, Profibus, DeviceNet, and Serial (Modbus/RS422/RS485/EIBisynch).

Note: Refer to application note 6200 on the fax back system for the part number and associated material.

**Q. Do the Networking communication options affect hardwire I/O of the 690+?**

A. The hardwire I/O is unaffected by Networking!

**Q. What setup Macros are available for the 690+?**

A. The 690+ have six common macros including a factory default, raise/lower, PID, SPW, preset speed, and system configuration.

Note: Using ConfigEd Lite application software macros are available to configure Draw Sections, Current Winders and Speed Winders.

**Q. Why should an external 24VDC be applied to the Link techbox?**

A. This **back-up** allows drive power to be shut down, without loss of LINK network communications.

**Q. What is the Systems Expansion board for the 690+?**

A. The Systems Expansion board is a PCB containing five configurable digital inputs, four high resolution (12-bit) analog inputs, two extra encoder inputs, and two high speed register mark inputs for registration and electronic line shafting.

Note: The Systems Expansion board reroutes the hardwire analog inputs through a **High** resolution processor, but does not add additional analog inputs.

**Q. Is the keypad detachable during operation?**

A. Only if the drive is being controlled through the remote terminal connections.

**Q. What are the communication settings for the P3 Port on a 690+?**

A. The baud rate is 19200. The communication mode is CE Lite (EIASCII).

**Q. Can you download a ConfigEd Lite file into the drive when the motor is SPINNING?**

A. No while the drive is spinning a motor you can only UPLOAD configurations from the drive.

**Q. Where can I find setup (application notes) information for the 690+?**

A. You can visit <http://www.eurothermdrives.com/doc/application%20notes.htm> or call the fax back system.

**Q. What is the fax back system?**

A. The fax back system lets you receive application notes requested using a touch-tone phone.

**Q. How can I use the fax back system?**

A. First, you dial 704-588-4326, then Option 4, next Option 1, finally follow the prompt messages.

**Q. Where can I find a copy of the spare parts list for a 690+?**

A. To receive a copy of the spare parts list please contact the Inside Sales Department at 704-588-4326.

If you have questions, please call the Product Support Group at (704) 588-3246.