

## Kinetix 6200 and Kinetix 6500 Control Modules

This section contains specifications and catalog numbers for the modular Bulletin 2094 SERCOS interface and EtherNet/IP network control modules. Choose your control module based on the communication and safety requirements of your application.

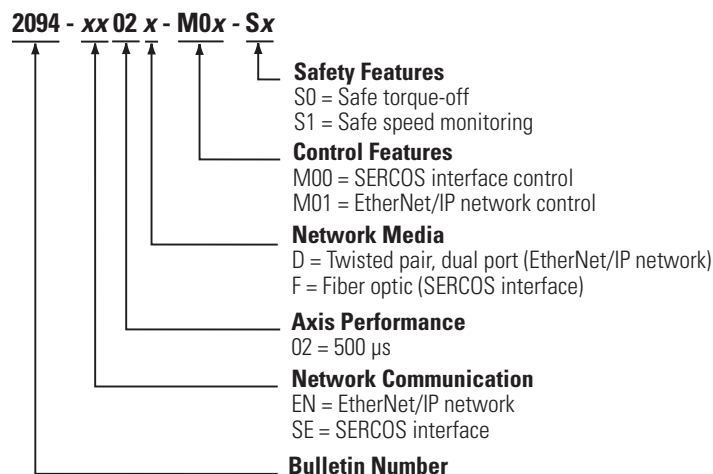
### Control Module Specifications

Control modules couple with IAM and AM power modules to provide drive status indicators and an interface to I/O, communication, safety functionality, and feedback.

Feature	Safe Torque-off		Safe Speed Monitoring	
	2094-EN02D-M01-S0	2094-SE02F-M00-S0	2094-EN02D-M01-S1	2094-SE02F-M00-S1
Ethernet ports	2	1	2	1
SERCOS ports	–	Rx/Tx	–	Rx/Tx
DC Bus status indicator	√	√	√	√
Network status indicator	√	–	√	–
Module status indicator	√	–	√	–
Drive status indicator	–	√	–	√
Comm status indicator	–	√	–	√
Safety lock status indicator	–	–	√	√
PORT 1 status indicator	√	√	√	√
PORT 2 status indicator	√	–	√	–
IOD connector for I/O, safety, and auxiliary feedback	√	√	√	√
MF connector for motor feedback	√	√	√	√

### Control Module Catalog Numbers

Catalog numbers consist of various characters, each of which identifies a specific option for that component. Use the catalog numbering table chart below to understand the configuration of your module. For questions regarding product availability, contact your Allen-Bradley distributor.



## Kinetix 6200 and Kinetix 6500 General System Specifications

This section contains environmental, weight, power dissipation, circuit breaker/fuse, transformer, and contactor specifications.

### Environmental Specifications

Attribute	Operational Range	Storage Range (nonoperating)
Ambient temperature	0...50 °C (32...122 °F)	-40...70 °C (-40...158 °F)
Relative humidity	5...95% noncondensing	5...95% noncondensing
Altitude	1000 m (3281 ft) 3000 m (9843 ft) with derating	3000 m (9843 ft) during transport
Vibration	5...55 Hz @ 0.35 mm (0.014 in.) double amplitude, continuous displacement; 55...500 Hz @ 2.0 g peak constant acceleration (10 sweeps in each of 3 mutually perpendicular directions)	
Shock	15 g, 11 ms half-sine pulse (3 pulses in each direction of 3 mutually perpendicular directions)	

### Weight Specifications

IAM Power Module	Cat. No.	Weight, approx. kg (lb)
IAM (460V)	2094-BC01-MP5-M	5.67 (12.5)
	2094-BC01-M01-M	5.67 (12.5)
	2094-BC02-M02-M	5.90 (13.0)

Kinetix 6200 Control Module	Cat. No.	Weight, approx. kg (lb)
SERCOS interface	2094-SE02F-M00-S0	0.68 (1.5)
	2094-SE02F-M00-S1	

AM Power Module	Cat. No.	Weight, approx. kg (lb)
AM (460V)	2094-BMP5-M	3.18 (7.0)
	2094-BM01-M	3.18 (7.0)
	2094-BM02-M	3.40 (7.5)

Kinetix 6500 Control Module	Cat. No.	Weight, approx. kg (lb)
EtherNet/IP network	2094-EN02D-M01-S0	0.68 (1.5)
	2094-EN02D-M01-S1	

## Interface Cable Combinations

Cat. No.	Cable Description	Drive Compatibility
2090-UXPC-D09xx	Serial cable to computer, 9-pin	Ultra3000/5000 drives
2090-U3CC-D44xx <sup>(1)</sup>	CN1 connector to flying leads for 1756-M02AE module, 44-pin, single-axis cable	Ultra3000, Ultra3000 with indexing drives and Ultra3000-DN, Ultra3000-DN with indexing drives
2090-U3AE-D44xx <sup>(1)</sup>	CN1 connector to premolded 1756-M02AE module connector, 44-pin, two-axis cable	
2090-SCEPx-x	SERCOS fiber optic plastic cables suitable only for use inside an enclosure. Connectors are provided at both ends.	ControlLogix 1756-MxxSE modules to Kinetix 2000, Kinetix 6000, Kinetix 6200, Kinetix 7000, and Ultra3000-SE drives
2090-SCVPx-x	SERCOS fiber optic plastic cables suitable for use outside an enclosure. Connectors are provided at both ends.	
2090-SCNPx-x	SERCOS fiber optic plastic cables suitable for use outside an enclosure in harsh duty applications. Connectors are provided at both ends.	
2090-SCVGx-x	SERCOS fiber optic glass cables suitable for use outside an enclosure. Connectors are provided at both ends.	
2090-S-BLHD	SERCOS fiber optic cable bulkhead adapter (2 per pack).	
1202-C02	Drive-to-drive safety cable for connecting single-wide Kinetix 6000 axis modules.	Kinetix 6000 drives with safe-off feature (2094-BCxx-Mxx-S and 2094-BMxx-S) and Kinetix 7000 drives (2099-BMxx-S)
1202-C03	Drive-to-drive safety cable for connecting double-wide Kinetix 6000 axis modules.	
1202-C10	Drive-to-drive safety cable for connections between two Kinetix 6000 power rails, two Kinetix 7000 drives, or from the Kinetix 6000 power rail to Kinetix 7000 drive.	
1585J-M8CBJM-x	Double-ended (shielded) Ethernet cables for use when programming the safety configuration and the Logix EtherNet/IP network module.	2094-SE02F-M00-S0 or 2094-SE02F-M00-S1
1585J-M8CB-x	Single-ended (shielded) Ethernet cables for use when programming the safety configuration and the Logix EtherNet/IP network module.	Kinetix 6200 control modules and 2094-EN02D-M01-S0 or 2094-EN02D-M01-S1
1585J-M8CC-H	RJ45 insulation displacement connector (IDC) for use when making your own cables.	Kinetix 6500 control modules
1585-C8CB-Sxxx	Shielded Ethernet (bulk) cable for use when making your own cables.	
2090-DAPC-D09xx	Ultra1500 serial interface to computer	Ultra1500 drives
2090-DAIO-D50xxx	Ultra1500 control interface to flying leads	
2090-U5PM-D09xx	Ultra5000 to PanelView 300 Micro, 1761-NET-ENI, and MicroLogix DF-1	Ultra5000 drives
2090-U5PV-D09xx	Ultra5000 to PanelView 300 Keypad 500/600/1000 Standard DF-1	
2090-XXNRB-10F0P5	Resistive Brake Module (RBM) to drive interface cable, 10 AWG	Kinetix 6000/Kinetix 6200/Kinetix 6500 drives
2090-UXNRB-10F1P3		Ultra3000 drives
2090-XXNRB-8F0P6	Resistive Brake Module (RBM) to drive interface cable, 8 AWG	Kinetix 6000/Kinetix 6200/Kinetix 6500 drives
2090-UXNRB-8F1P4		Ultra3000 drives
2090-UXNRB-6F1P5	Resistive Brake Module (RBM) to drive interface cable, 6 AWG	Ultra3000 drives

(1) This cable does not carry the unbuffered motor encoder signals (CN1 pins 10-15). Contact your Allen-Bradley sales representative if these signals are required for your application.

Cable length xx or x-x is in meters. Refer to Standard Cable Lengths beginning on [page 393](#).