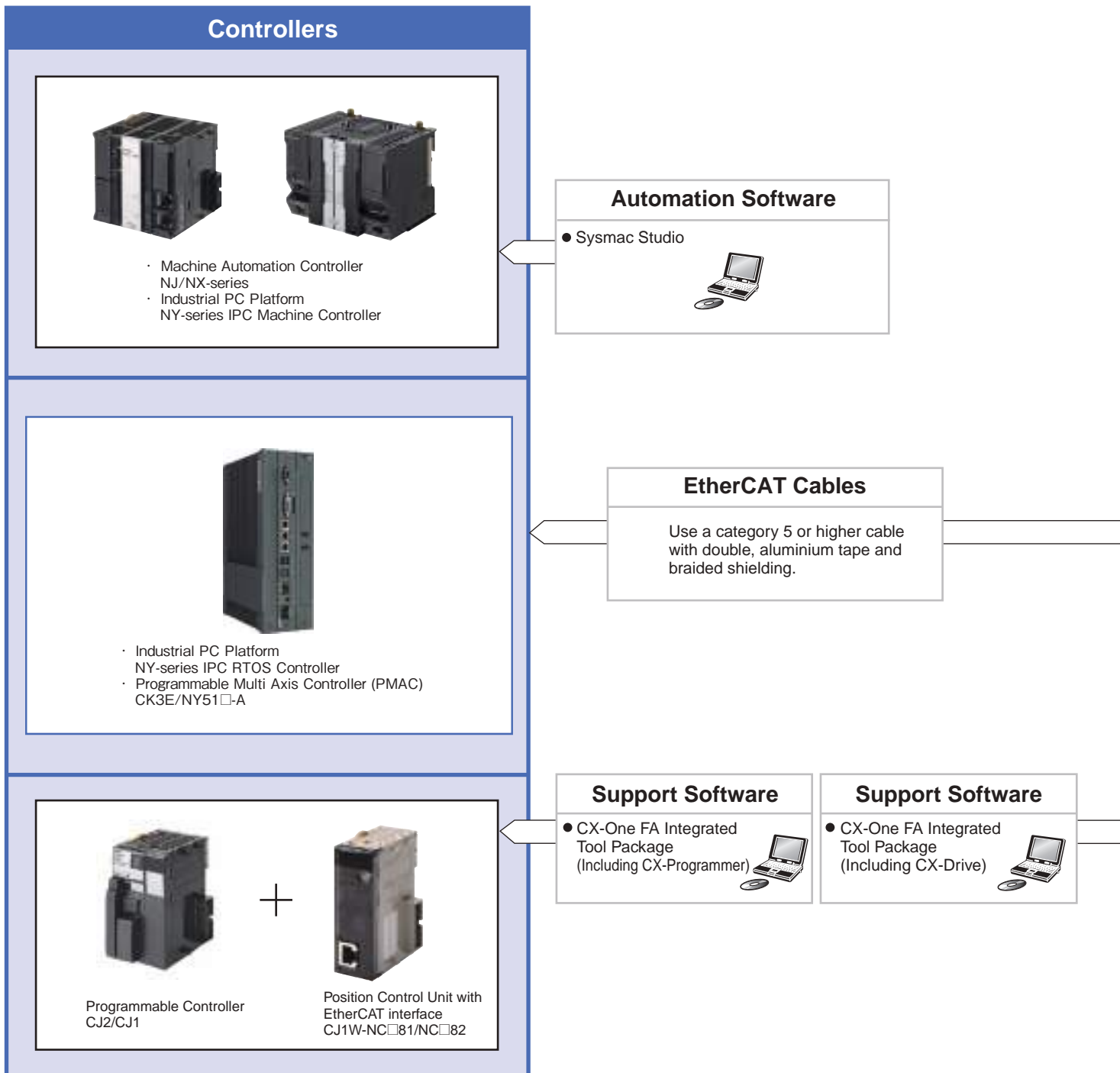


G5 Series AC Servomotor/Servo Drives with built-in EtherCAT Communications

R88M-K/R88D-KN□-ECT

System Configuration

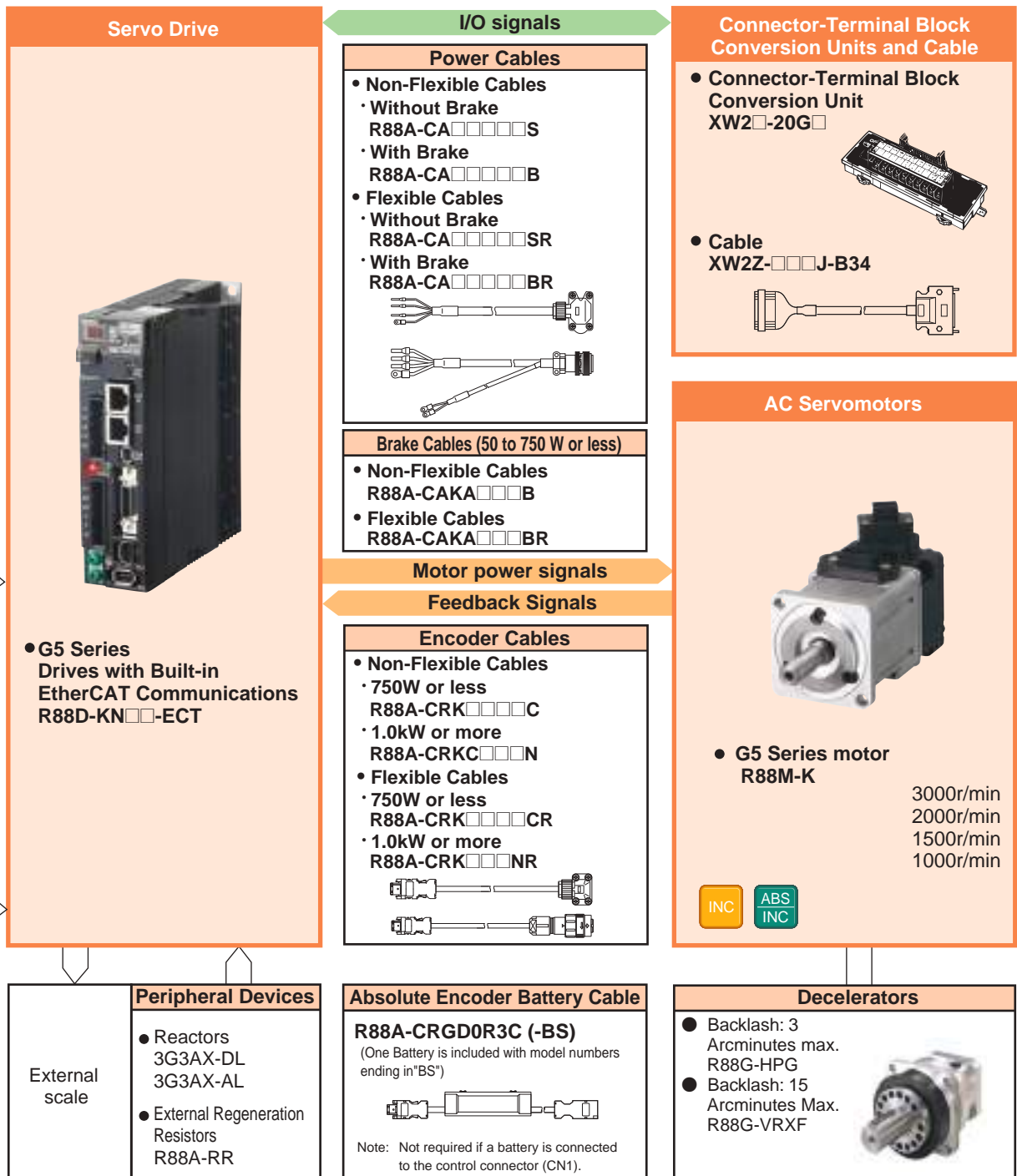


Note: PMAC is an abbreviation for Programmable Multi Axis Controller.

High-Speed and High-Precision G5 Series EtherCAT Communications with the Controller

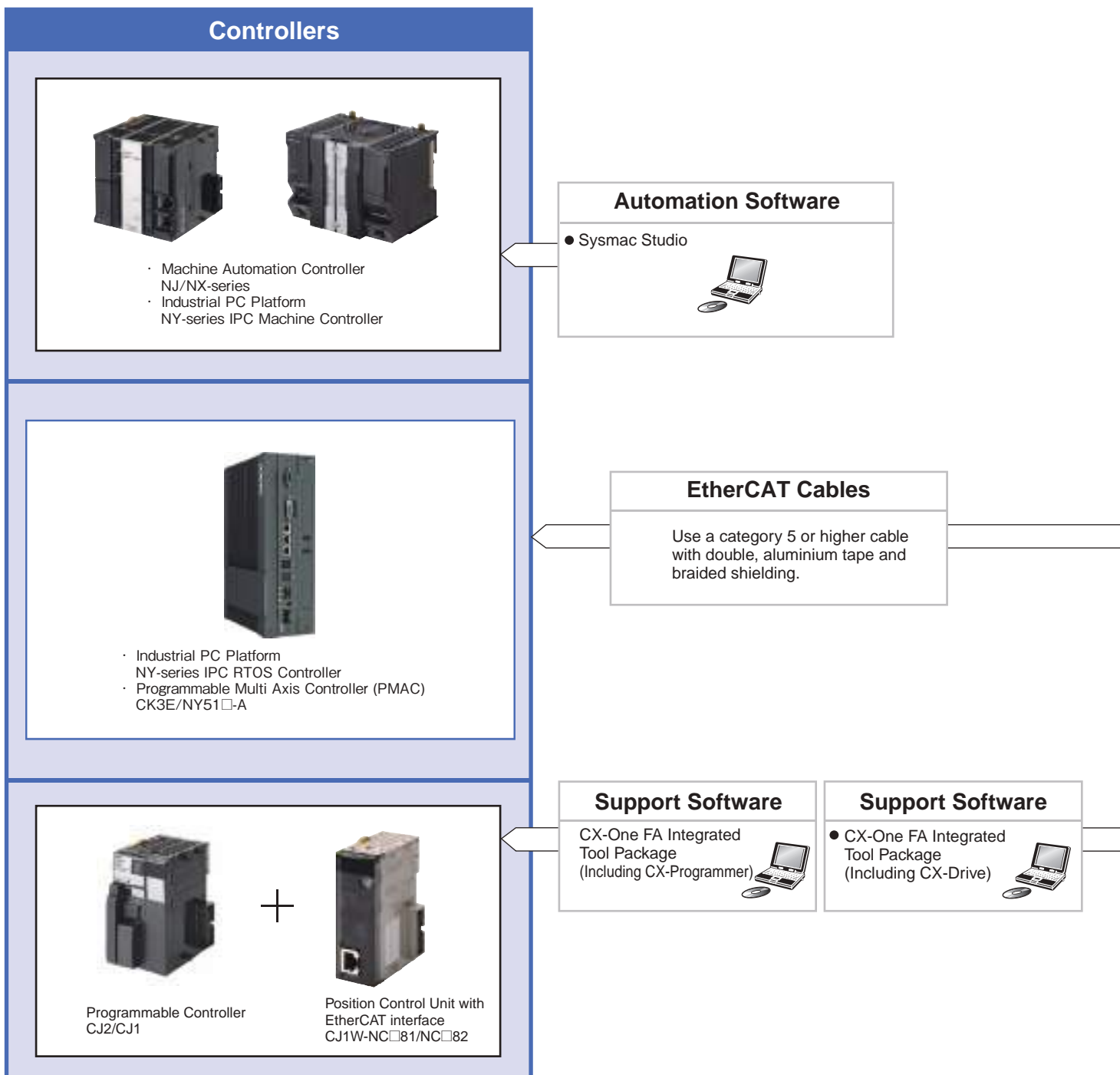


- High-accuracy positioning with fully-closed control.
- Servo Drives for 400VAC globally widens applicable systems and environment, including large-scale equipment.
- Safe design and Safe Torque Off (STO) function.
- Vibration can be suppressed in acceleration/deceleration even in low-rigidity mechanical systems.



G5 Series Linear Motor/Servo Drives with built-in EtherCAT Communications Linear Motor Type R88L-EC/R88D-KN□-ECT-L

System Configuration

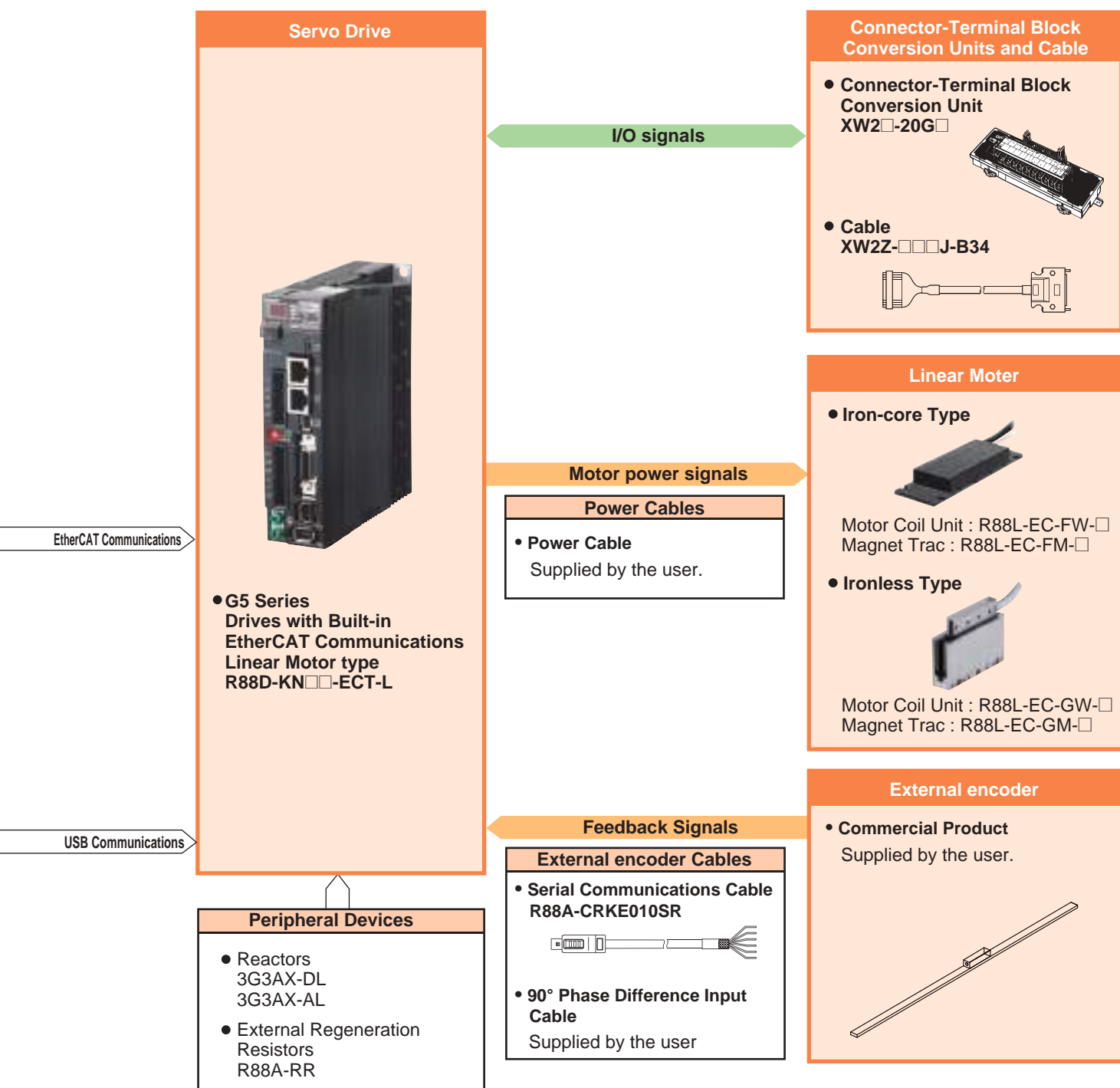


Note: PMAC is an abbreviation for Programmable Multi Axis Controller.

Linear Motor for Higher-speed and Higher-precision



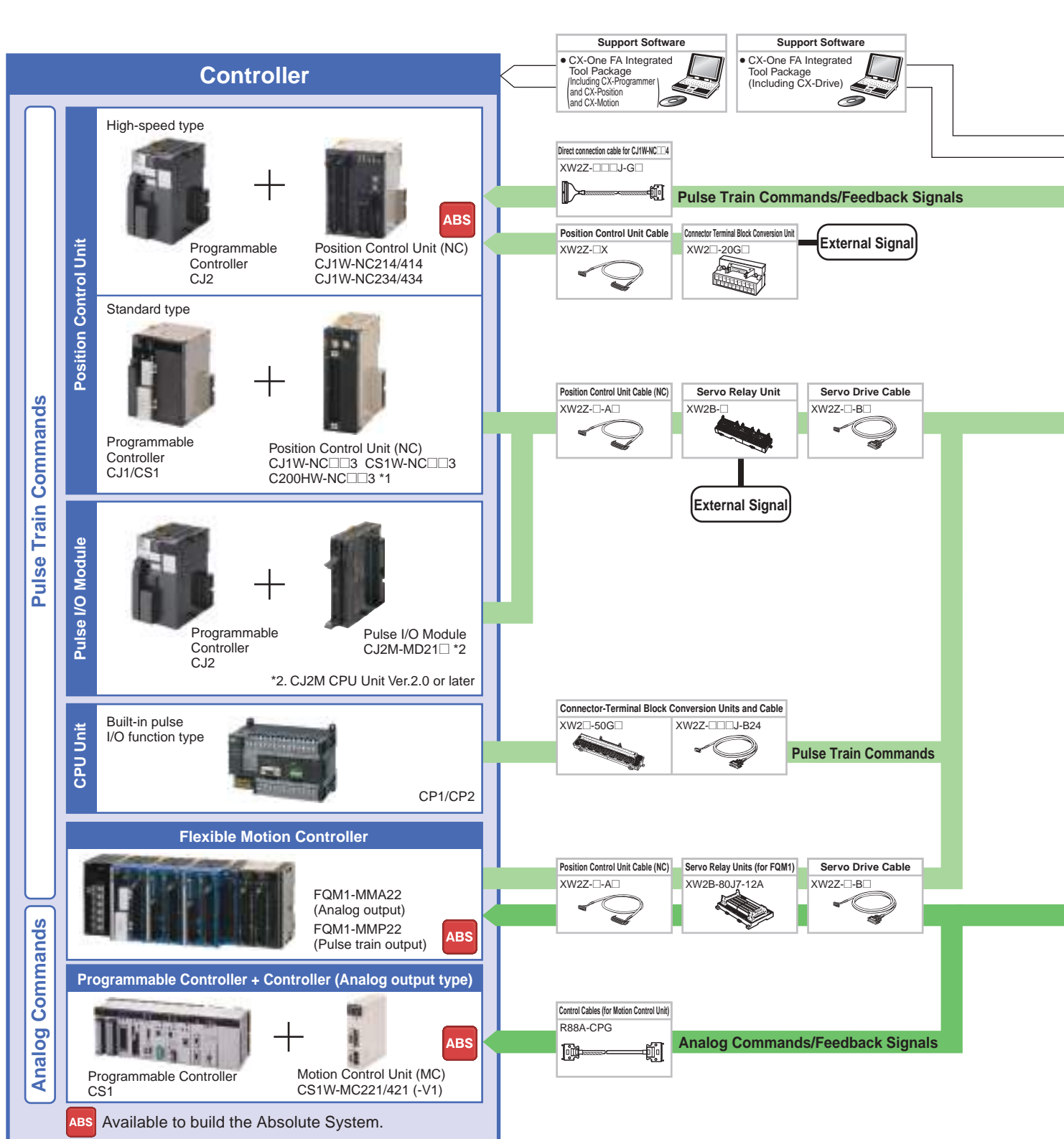
- Inherited functions and performance of G5 series and EtherCAT communications achieve high-speed and high-precision positioning.
- Lineup of compact and high-thrust iron-core motor type and cogging-free ironless motor type with excellent speed stability.
- Same Iron-core motor type for 200V AC and 400V AC.
- Quick setup by automatic setup function.



G5-series AC Servomotors/Servo Drives with General-purpose Pulse Train or Analog Inputs

R88M-K/R88D-KT

System Configuration



*1. C200HW-NC was discontinued.

The Preeminent Servo That Revolutionizes Motion Control



- Industry Top-class Tracking Performance.
Speed Response Frequency of 2 kHz.
- Best Positioning Accuracy*.
Featuring a 20-bit high-resolution incremental encoder.
* 8 times the resolution of previous OMRON models
- High-precision Positioning.
Fully Closed Loop Control Is a Standard Feature.
- Conforms to the Latest International Standards.
Safety and Productivity.
- Globalization. Lineup of 400 VAC Servomotors.

USB communications

Servo Drive



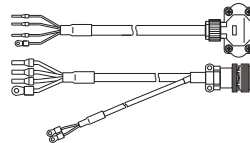
• G5 Series driver
R88D-KT

100 VAC
200 VAC
400 VAC

Motor power signals

Power Cables

- Non-flexible Cables
 - Without Brake
R88A-CA□□□□□S
 - With Brake
R88A-CA□□□□□B
- Flexible Cables
 - Without Brake
R88A-CA□□□□□SR
 - With Brake
R88A-CA□□□□□BR



Brake Cables (50 to 750 W or less)

- Non-flexible Cables
R88A-CAKA□□□□B
- Flexible Cables
R88A-CAKA□□□□BR

Feedback Signals

Encoder Cables

- Non-Flexible Cables
 - 750W or less
R88A-CRK□□□□□C
 - 1.0kW or more
R88A-CRKC□□□□N
- Flexible Cables
 - 750W or less
R88A-CRK□□□□□CR
 - 1.0kW or more
R88A-CRK□□□□□NR



AC Servomotors



• G5 Series motor
R88M-K

3,000 r/min
2,000 r/min
1,500 r/min
1,000 r/min



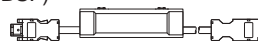
External scale

Peripheral Devices

- Reactors
3G3AX-DL
3G3AX-AL
- External Regeneration Resistors
R88A-RR

Absolute Encoder Battery Cable

R88A-CRGD0R3C (-BS)
(One Battery is included with Servo Drivers with model numbers ending in "BS.")



* Not required if a battery is connected to the control connector (CN1).

Decelerators

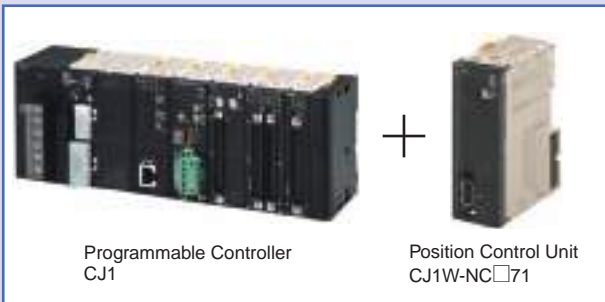
- Backlash: 3 Arcminutes max.
R88G-HPG
- Backlash: 15 Arcminutes Max.
R88G-VRXF



R88M-K/R88D-KN□-ML2

System Configuration

Controllers (MECHATROLINK-II type)



Support Software

- CX-One FA Integrated Tool Package (Including CX-Programmer and CX-Position and CX-Motion)

Support Software

- CX-One FA Integrated Tool Package (Including CX-Drive)

MECHATROLINK-II

MECHATROLINK-II Cables

(With ring core and USB connector on both ends)
FNY-W6003-□□ (OMRON model number)

(Without ring core USB connector on both ends)
FNY-W6002-□□ (OMRON model number)

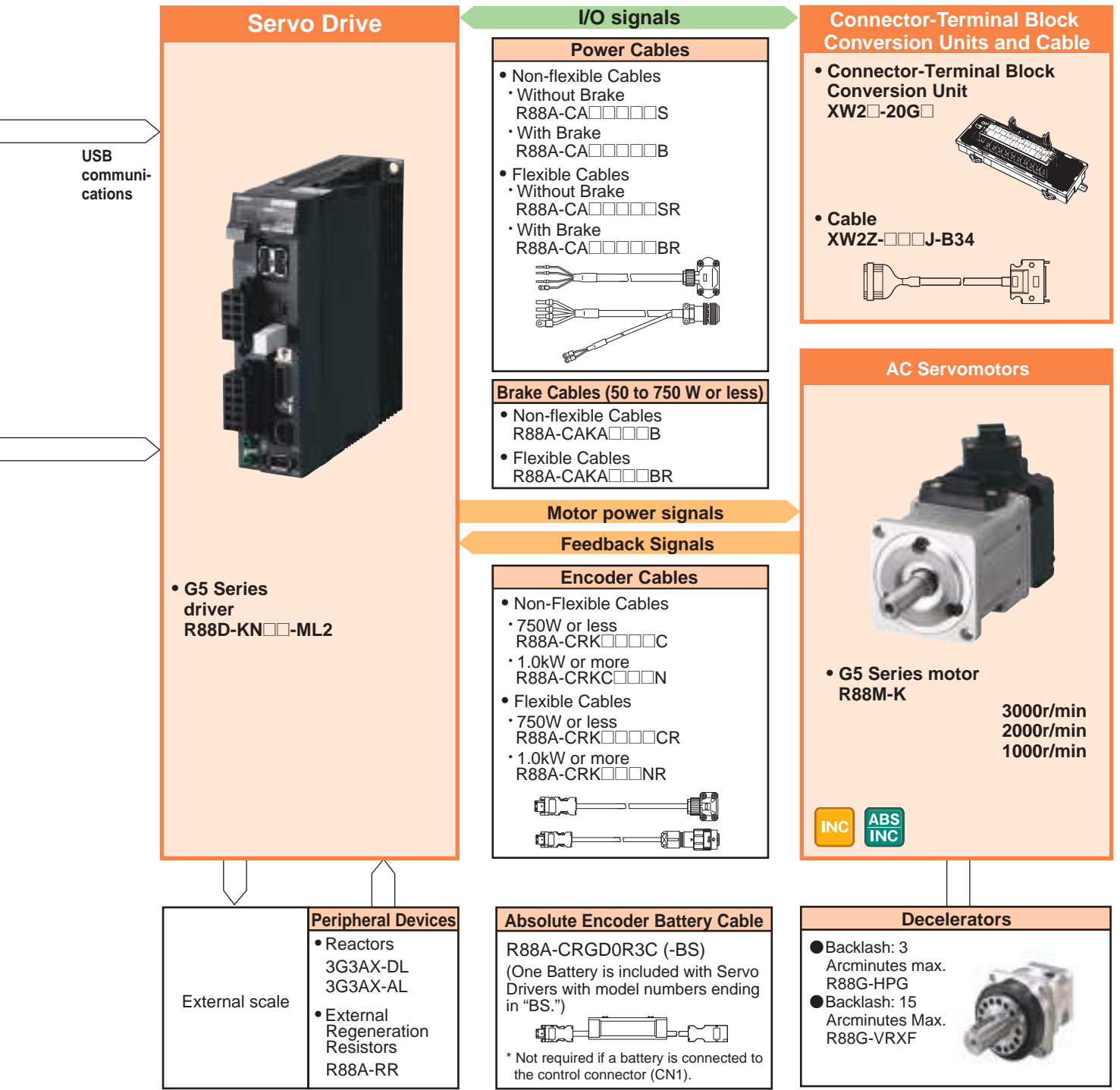
MECHATROLINK-II Repeater

		Maximum transmission distance	
		0 to 30 m	30 to 50 m
Number of connected devices	1 to 15	Repeater not required.	Repeater not required.
	16	Repeater not required.	Repeater required.



High-Speed and High-Precision G5 Series MECHATROLINK-II Communications with the Controller

- Data transfer using MECHATROLINK-II Communications:
All control data that can be interfaced between the Servo Driver and the Controller is transmitted using data communications. This enables maximizing the Servomotor performance without restricting the transmission performance of the control signals.
- Having a communications module built into the Servo Driver significantly saves space in the control panel.



(Ro)