



Servo Drives 9400 Modules

Overview of modules

The Servo Drives 9400 and the regenerative power supply modules can be adapted to machine requirements with up to four different modules. The following slots are available:




- ▶ Memory modules (slot MMI) required for operation
- ▶ Safety modules (slot MSI) required for operation
- ▶ Extension modules
(slot MXI 1 and/or MXI 2)

The tables below show the modules available for the Servo Drives 9400 and the regenerative power supply modules.






Axis module with module slots MXI, MMI and MSI

Memory module

Slot	Image	Ausprägung	Product key	Ausprägung	
		Memory module		HighLine	V / R- Module
MMI		Motion control HighLevel MM220	E94AYM22	Standard	Standard
MMI		Motion control TopLevel MM330	E94AYM33	Option	
MMI		Motion control TopLevel MM430	E94AYM43	Option	




Safety module

Slot		Ausprägung	Product key	Ausprägung	
		Safety module		HighLine	V / R- Module
MSI		SM0	E94AYAA	Standard	Standard
MSI		SM100	E94AYAB	Option	
MSI		SM301	E94AYAE	Option	








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Extension modules

Slot		Ausprägung	Product key	Ausprägung	
		Extension module		HighLine ²⁾	V / R- Module ²⁾
MXI1 MXI2		Digital frequency	E94AYFLF	Option	

Communication modules

Slot		Ausprägung	Product key	Ausprägung	
		Communication module		HighLine ²⁾	V / R- Module ²⁾
MXI1 MXI2		CANopen	E94AYCCA	Option	Option
MXI1 MXI2		DeviceNet	E94AYCDN	Option	Option
MXI1 MXI2		EtherCAT	E94AYCET	Option	Option
MXI1 MXI2		Ethernet	E94AYCEN	Option	Option
MXI1 MXI2		POWERLINK MN/CN	E94AYCEP	Option	
MXI1 MXI2		POWERLINK CN	E94AYCEC	Option	
MXI1 MXI2		PROFIBUS	E94AYCPM	Option	Option
MXI1 MXI2		PROFINET	E94AYCER	Option	Option

¹⁾ Number of available extension module slots: 1
²⁾ Number of available extension module slots: 2



Assignment of extension modules and module slots (HighLine)

Two module slots on the Servo Drives 9400 are intended for extensions. The following table lists the possible combinations.

MXI 1	E94AYFLF	E94AYCCA	E94AYCDN	E94AYCET	E94AYCEN	E94AYCEP	E94AYCEC	E94AYCPM	E94AYCER
MXI 2									
E94AYFLF		•	•	•	•	•	•	•	•
E94AYCCA	•			•	•	•	•	•	•
E94AYCDN	•				•	•	•	•	•
E94AYCET	•	•			•				•
E94AYCEN	•	•	•	•		•	•	•	•
E94AYCEP	•	•	•		•			•	•
E94AYCEC	•	•	•		•				
E94AYCPM ¹⁾	•	•	•		•	•			•
E94AYCER ¹⁾	•	•	•	•	•	•		•	

¹⁾ Module slot MXI 1 must be used for PROFIsafe.

Assignment of extension modules and the module slot for the regenerative power supply module

Two module slots on the regenerative power supply modules are intended for extensions. The following table lists the possible combinations.

MXI 1	E94AYCCA	E94AYCDN	E94AYCET	E94AYCEN	E94AYCPM	E94AYCER
MXI 2						
E94AYCCA			•	•	•	•
E94AYCDN				•	•	•
E94AYCET	•	•		•		
E94AYCEN	•	•	•		•	•
E94AYCPM	•	•		•		
E94AYCER	•	•	•	•		



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Memory module

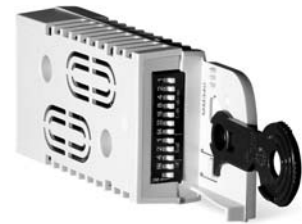
Click – the plug-in memory module

For the Servo Drives 9400, various memory modules are available:



- ▶ Motion Control HighLevel (MM220)
- ▶ Motion Control TopLevel (MM330 and MM430)

With these modules, the functions described below are activated. The functions can be loaded into the device with the help of L-force Engineer.

In addition to the different functions of the Runtime software versions, different memory sizes are available or, respectively, a real-time clock function (battery-backed), depending on the memory module used.




Memory module MM330

Ausprägung		Features	Slot	Product key
Memory module				
Motion control HighLevel MM220		<ul style="list-style-type: none"> ▶ Application and parameter storage ▶ Functional range of HighLevel Motion Control with Servo Drives 9400 HighLine: <ul style="list-style-type: none"> - Speed actuating drive - Torque actuating drive - Electronic gearbox - Synchronism using mark synchronisation - Table positioning - Expansion/adaptation by means of function block editor In conjunction with V/R module: <ul style="list-style-type: none"> - operation of the regenerative power supply module - expansion/adaptation by means of function block editor ▶ Address switch and baud rate setting for onboard system bus CANopen 	MMI	E94AYM22
Motion control TopLevel MM330		<ul style="list-style-type: none"> ▶ Application and parameter storage ▶ Functional range of Motion Control TopLevel with Servo Drives 9400 HighLine: <ul style="list-style-type: none"> - Speed actuating drive - Torque actuating drive - Electronic gearbox - Synchronism using mark synchronisation - Table positioning - Positioning sequence control (graph. sequencer) - Expansion/adaptation by means of function block editor - Function blocks with cam functionality ▶ Address switch and baud rate setting for onboard system bus CANopen 	MMI	E94AYM33



Memory module

Ausprägung		Features	Slot	Product key
Memory module				
Motion control TopLevel MM430		<ul style="list-style-type: none"> ▶ Application and parameter storage ▶ Functional range of Motion Control TopLevel with Servo Drives 9400 HighLine: <ul style="list-style-type: none"> - Speed actuating drive - Torque actuating drive - Electronic gearbox - Synchronism using mark synchronisation - Table positioning - Positioning sequence control (graph. sequencer) - Expansion/adaptation by means of function block editor - Function blocks with cam functionality ▶ Address switch and baud rate setting for onboard system bus CANopen ▶ Real-time function (battery-buffered) 	MMI	E94AYM43

Product key		E94AYM22	E94AYM33	E94AYM43
Ausprägung Memory module		Motion control HighLevel MM220	Motion control TopLevel MM330	Motion control TopLevel MM430
Storage medium Flash memory	[MB]	2.00	4.00	8.00
Additional function Real-time clock		No		Yes
System bus addressing switch (CAN)		Yes		