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Stage and Controller Compatibility

The following table lists all Newport positioners and the compatible Newport motion controllers. Most stages feature ESP technology that provides true plug and play compatibility, wherein the Newport controller recognizes the connected stage and automatically uploads the stage operating parameters. This eliminates the risk for incorrect setting of parameters. Listed also is the maximum power consumption for each stage when used at maximum speed, with full load and at maximum acceleration. In order to be able to operate all stages simultaneously, and at these values, the total power consumption of all stages connected to the same controller (same power supply for SMC100) must be less than the power of the controller's power supply: 750 W for XPS-D, 300 W for the XPS-RLD, 150 W for ESP302 and 80 W for SMC100.



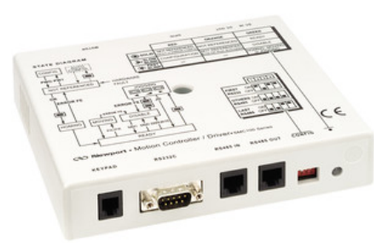
XPS-D Universal 1-8 Axis Motion Controllers



XPS-RLD Universal 1-4 Axis Motion Controllers



302 3-Axis DC & Stepper Motion Controller



SMC100 Single Axis Motion Controller

Dedicated controllers like CONEX, FCL, Agilis, iPico and NanoPZ are not included in this table, but additional information is available for these at their respective product pages.

For Controller GUI's, firmware updates, software drivers, programming examples and user manuals, please visit download.newport.com

Linear Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
GTS	25	XPS-DRV11	XPS-DRV01	✔	✔	✔	
IDL165-LM	160	XPS-DRV11	XPS-DRV02				
IDL225-LM to IDL560-LM		XPS-EDBL	XPS-EDBL				
ILS-CC	70	XPS-DRV11	XPS-DRV01	✔	✔		
ILS-CCL	30					✔	
ILS-HA	60	XPS-DRV11	XPS-DRV01	✔	✔		
ILS-LM-S[3]	80	XPS-DRV02 [4]	XPS-DRV02 [4]				
ILS-BPP	40	XPS-DRV11	XPS-DRV01	✔	✔		✔
IMS-CC, IMS-CCHA	170	XPS-DRV11	XPS-DRV03	✔			
IMS-LM-S	220	XPS-DRV11 [4] or XPS-EDBL [4]	XPS-DRV02 [4] or XPS-EDBL [4]				
IMS-BPP	40	XPS-DRV11	XPS-DRV01	✔	✔		
MFA-CC, MFA-CCV6	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
MFA-PPD	10	XPS-DRV11	XPS-DRV01	✔	✔		✔
MLT		XPS-DRV11					
MTN-CC	170	XPS-DRV11	XPS-DRV03	✔	✔		
MTN-BLHS	170	XPS-DRV11BL					
MTN-PP	75	XPS-DRV11	XPS-DRV01	✔	✔		
MTN-PPV6	10	XPS-DRV11	XPS-DRV01	✔	✔		

Linear Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
ONE-XY[3]		XPS-DRV02	XPS-DRV02				
UTS-CC	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
UTS-PP	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
UTS-PPV6	10	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[1,2]
VP-25XA	30	XPS-DRV11	XPS-DRV03	✔	✔	✔	
VP-25XL[3]	30	XPS-DRV03	XPS-DRV03				
XML-S	100	XPS-DRV11 [4]	XPS-DRV02 [4]				
XMS-S	70	XPS-DRV11 [4]	XPS-DRV02 [4]				

Vertical Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
GTS-V		XPS-DRV11	XPS-DRV01	✔	✔	✔	
IDL280-Z20	50	XPS-DRV11	XPS-DRV01				
IMS-V	80	XPS-DRV11	XPS-DRV01	✔	✔		
UZS80CC	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
UZS80PP	20	XPS-DRV11	XPS-DRV01	✔	✔		✔
VP-5ZA	30	XPS-DRV11	XPS-DRV03	✔	✔	✔	
XMS-V		XPS-DRV11 [4]	XPS-DRV02 [4]				

Rotation Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
PR50CC, SR50CC	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
PR50PP, SR50PP	10	XPS-DRV11	XPS-DRV01	✔	✔		Reduced[1]
RGA150		XPS-DRV11 [5]					
RGV100-S	100	XPS-DRV11 [4]	XPS-DRV02 [4]				
RGV160BL		XPS-EDBL [4]	XPS-EDBL [4]				
RVS80CC	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
RV120CC to RV350CC	130	XPS-DRV11	XPS-DRV03	✔			
RV120CCHL	20	XPS-DRV11	XPS-DRV03	✔	✔		
RV160CCHL to RV350CCHL	130	XPS-DRV11	XPS-DRV03	✔			
RV120HAHL	100	XPS-DRV11	XPS-DRV03	✔			
RV120HAT to RV350HAT	170	XPS-DRV03	XPS-DRV03				
RV160HAHLT to RV350HAHLT	170	XPS-DRV03	XPS-DRV03				
RVS80PP	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
RV120PE	20	XPS-DRV01	XPS-DRV01		✔		
RV120BPP to RV350BPP	70	XPS-DRV01 [6]	XPS-DRV01	✔	✔		
RV160BPE to RV350BPE	70	XPS-DRV11	XPS-DRV01	✔	✔		
RV120BPEV6	70	XPS-DRV11	XPS-DRV01	✔	✔		
URB100CC	30	XPS-DRV11	XPS-DRV01	✔	✔	✔	

Rotation Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
URS50BCC	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
URS75BCC to URS150BCC	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
URS50CPP	10	XPS-DRV11	XPS-DRV01	✔	✔		Reduced[1],[2]
URS75BPP to URS150BPP	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
URS50BPPV6	10	XPS-DRV11	XPS-DRV01	✔	✔		Reduced[1]
URS75BPPV6	10	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[1],[2]
ZVR-PC (Theta-axis)	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
ZVR-PC (Z-axis)	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
ZVR-PP (Theta-axis)	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
ZVR-PP (Z-axis)	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]

Goniometric Stage Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
BGS50CC	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
BGS80CC	40	XPS-DRV11	XPS-DRV01	✔	✔	✔	
BGM120CC to BGM200CC	60	XPS-DRV11	XPS-DRV01	✔	✔		
BGS50PP	10	XPS-DRV11	XPS-DRV01	✔	✔		✔
BGS80PP	20	XPS-DRV11	XPS-DRV01	✔	✔[2]		Reduced[2]
BGM120BPP to BGM200BPP	60	XPS-DRV11	XPS-DRV01	✔	✔		
BGM120PE to BGM200PE	10	XPS-DRV11	XPS-DRV01		✔		Reduced[1]
BGM120PEBV6, BGM160PEBV6	10	XPS-DRV11	XPS-DRV01	✔	✔		Reduced[1]

Motorized Actuator Series	Maximum Power Consumption (W)	XPS-D and XPS-RLD Driver Module	Legacy XPS-Q/XPS-RL Driver Module	ESP302 Compatibility	Legacy ESP301 Compatibility	SMC100CC Compatibility	SMC100PP Compatibility
LTA-HL, LTA-HS	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
LTAHLPPV6, LTAHSPPV6	10	XPS-DRV11	XPS-DRV01	✔	✔		Reduced[1]
NPA-D	10	XPS-DRVP1	XPS-DRVP1				
TRACC	10	XPS-DRV11	XPS-DRV01	✔	✔	✔	
TRAPPD, TRAPPV6	10	XPS-DRV11	XPS-DRV01	✔	✔		✔
TRBCC	10	XPS-DRV01 [6]	XPS-DRV01	✔	✔	✔	
TRBPP	10	XPS-DRV01 [6]	XPS-DRV01	Reduced[1]	✔		Reduced[1]
VP-25AA	30	XPS-DRV11	XPS-DRV03	✔	✔	✔	

Compatibility Footnotes

1. Speed is reduced by a factor of 2.5 from the speed specified in the stage data sheet (ie, 40% of rated speed).
2. MIM is equal to 1/20 of full step (contact technical support team for more information on stage specific full step).
3. E5820A adaptor required when used with XPS-D/XPS-RLD.

4. A cable kit is required to pair with the driver module. Check the compatibility in XPS Series Motion Controller to Stage Cable Kits family.
5. Compatible with XPS-D only.
6. When used with XPS-RLD, plug XPS-DRV01 to slots other than slot 1.

General Notes

- For FC series intelligent stepper motor stages/controllers, see Intelligent Stepper Motor Linear Stages and Intelligent Stepper Motor Rotary Stages.
- For Picomotor controller products, see Intelligent Picomotor™ (iPico™) Modules.
- For NanoPZ actuators and controllers, see NanoPZ Piezo Motor Motion Controller.
- For Agilis piezo-motor products, see Agilis™ Piezo Motor Driven Linear Stages, see Agilis™ Piezo Motor Driven Rotation Stages, see Agilis™ Piezo Optical Mounts, see Agilis™ Piezo Motion Controllers.

*When stages are not driven synchronously, consider the maximum power consumption only for the stage with the highest power consumption and use a 70% reduced RMS power for all other stages. Applies only for stages with this footnote. When stages are driven synchronously, consider the maximum power consumption for all stages.

If higher speeds are needed for any of the linear motor driven stages, please contact Tech Support to select the appropriate driver.

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