

SIMOTION Motion Control System

SIMOTION D – Drive-based

SIMOTION D4x5-2 Control Units

Technical specifications

Order No.		6AU1425-2AA00-0AA0	6AU1425-2AD00-0AA0	6AU1435-2AA00-0AA0	6AU1435-2AD00-0AA0	6AU1445-2AD00-0AA0	6AU1455-2AD00-0AA0
Product brand name		SIMOTION	SIMOTION	SIMOTION	SIMOTION	SIMOTION	SIMOTION
Product-type designation		D425-2 DP	D425-2 DP/PN	D435-2 DP	D435-2 DP/PN	D445-2 DP/PN	D455-2 DP/PN
Performance class for motion control system		BASIC Performance	BASIC Performance	STANDARD Performance	STANDARD Performance	HIGH Performance	ULTRA-HIGH Performance
Version of the motion control system		Multiple-axis system	Multiple-axis system	Multiple-axis system	Multiple-axis system	Multiple-axis system	Multiple-axis system
PLC and motion control performance							
Maximum number of axes		16	16	32	32	64	128
Minimum PROFIBUS cycle clock	ms	1	1	1	1	1	1
Minimum PROFINET send cycle clock	ms	0.25	0.25	0.25	0.25	0.25	0.25
Minimum servo cycle clock	ms	0.5	0.5	0.5	0.25	0.25	0.25
Minimum interpolator cycle clock	ms	0.5	0.5	0.5	0.25	0.25	0.25
Servo / IPO clock cycle, remark		–	–	–	0.5 ms in conjunction with integrated SINAMICS S120 drives (SINAMICS Integrated); 0.25 ms in conjunction with SERVO _{FAST} and IPO _{FAST}	0.5 ms in conjunction with integrated SINAMICS S120 drives (SINAMICS Integrated); 0.25 ms in conjunction with SERVO _{FAST} and IPO _{FAST}	0.5 ms in conjunction with integrated SINAMICS S120 drives (SINAMICS Integrated); 0.25 ms in conjunction with SERVO _{FAST} and IPO _{FAST}
Integrated drive control							
Maximum number of axes for integrated drive control							
• servo		6	6	6	6	6	6
• vector		6	6	6	6	6	6
• V/f		12	12	12	12	12	12
• remark		Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x	Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x	Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x	Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x	Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x	Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x
Memory							
RAM (work memory)	MB	48	48	64	64	128	256
Additional RAM work memory for Java applications	MB	20	20	20	20	20	20
RAM disk (load memory)	MB	31	31	41	41	56	76
Retentive memory	KB	364	364	364	364	512	512
Persistent memory (user data on CF)	MB	300	300	300	300	300	300