Dynetics
DYNAMIC IN MECHATRONICS

ACTILINK-S
INTEGRATED SERVO MOTORS
200W TO 1000W

offers the highest power density in the smallest space
integrate the SOMANET Integro
cost-effective and reliable

Replaces multiple parts and functions in a servo axis

Hybrid single cable technology replaces 3 cables with one

Drives future precision control and servo motor advancements in automation, advanced machinery, and robotics

More than 70% size reduction and over 50% cost reduction in manufacturing

Includes more than 13 safety functions to prevent undesirable motion

Up to 75% increase in efficiency and 3 times higher dynamics

5 times faster integration compared to conventional system

Model		Actilink-SC 6-1	Actilink-SC 6-2	Actilink-SC 6-3	Actilink-SC 8-1	Actilink-SC 8-2
Continuous Operation*						
Continuous Stall Torque	Nm	0.65	1.3	2	2.4	3.2
Rated Torque	Nm	0.65	1.3	1.9	2.4	3.2
Rated Velocity	rpm	3000	3000	3000	3000	3000
Rated Power	W	200	400	600	750	1000
Rated Voltage	V	48	48	48	48	48
Rated DC current	A_DC	5	10	15	18	24
Rated Overall Efficiency*		80%	82%	83%	87%	88%
Peak Operation						
Peak torque	Nm	2.5	5	8	9.5	13
Peak Power	W	520	1040	1670	2480	3400
Maximum velocity	rpm	4500	4500	4500	4500	4500
Peak DC current	A	24	40	60	76	120
Mechanical						
Weight	kg	1.1	1.4	1.8	2.4	2.9
Inertia	kgcm2	0.29	0.58	0.83	1.5	1.8
Weight (with brake)	kg	1.5	1.8	2.2	3	3.3
Inertia (with brake)	kgcm2	0.31	0.59	0.84	1.65	1.95
Max radial load	N	245	245	245	392	392
Max axial load	N	74	74	74	147	147
IP rating		IP 65	IP 65	IP 65	IP 65	IP 65
Operating Temperature	°C	0- 40**	0- 40**	0- 40**	0- 40**	0- 40**
Max operating altitude	m	2000***	2000***	2000***	2000***	2000***
Storage Temperature	°C	-60	-60	-60	-60	-60
Relative Humidity		20% -80%	20% -80%	20% -80%	20% -80%	20% -80%

- Wiring-free, quick motor assembly and repair
- Incl. Auto-Tuning, cogging compensation, feedforward algorithms and more.
- High-resolution battery-free multiturn encoder, integrated power and EMC
- A LED ring indicator to indicate the status of the motor
- Control loops on the axis Current, velocity, position Sampling
- Bolt-on servo drive, encoder, safety and wiring
- 13+ safety functions,
- PWM frequency 4..64 kHz
- One cable for many axes

- Usable standalone or with PLC / IPC

PROFINET   **CAN**   **EtherNet/IP**   **EtherCAT**

WWW.DYNETICS.EU INFO@DYNETICS.EU

ACTILINK-JD

ACTUATORS for highly dynamic ROBOTS & MACHINES

The actuators in the ACTILINK-JD series combine a compact design, high torque density, precise performance and flexibility for modular robotics. They feature a low-backlash planetary gearbox and high-torque motors.

Thanks to optimized gearbox and motor design, they offer outstanding dynamics, reliability under mechanical loads.

ACTILINK-JD reduces maintenance costs, minimizes cabling and ensures high efficiency in demanding applications

		ACTILINK-JD8	ACTILINK-JD10	ACTILINK-JD12
Reduction ratio		7.75:1	09:01	09:01
Voltage Range	V	24-48 V, 60V peak	24-48 V,60V peak	24-48 V, 60V peak
Rated Output Power	W	170	380	700
Rated Torque	Nm	6	20	40
Peak Torque	Nm	17	60	120
Torque Density	Nm/kg	44.7	68.2	84.5
No-load speed	rpm	315	195	200
Rated Load Speed	rpm	275	180	167
Outer Diameter	mm	78.5	98	120
Length	mm	56.05	64.25	64.75
Weight	gr	450	960	1500
Encoder		19 bit absolute multi-turn (battery)	20 bit absolute multi-turn (battery)	20 bit absolute multi-turn (battery)
Servo Drive		CR7-48-24-ECAN	CR9-48-60-ECAN	CR9-48-60-ECAN
Communication Protocol		EtherCAT (DS402)	EtherCAT (DS402)	EtherCAT (DS402)
Preliminary specs		**ACTILINK-JD 8 DUO**	**ACTILINK-JD 10 DUO**	**ACTILINK-JD 12 DUO**
Reduction ratio		19.61:1	19.61:1	20:01
Voltage Range	V	24-48 V, 60V peak	24-48 V, 60V peak	24-48 V, 60V peak
Rated Output Power	W	320	570	1000
Rated Torque	Nm	20	40	85
Peak Torque	Nm	60	110	220 (320 with 2nd launch wave)
Torque Density	Nm/kg	tbd	tbd	tbd
No-load speed	rpm	176	156	125
Rated Load Speed	rpm	153	127	100
Outer Diameter	mm	80	96	124
Length	mm	<91	<100	<109
Weight	gr	~900	~1500	~2700
Encoder		19 bit absolute multi-turn	20 bit absolute multi-turn	20 bit absolute multi-turn
Servo Drive		CR7-48-24-ECAN	CR9-48-60-ECAN	CR9-48-60-ECAN
Communication Protocol		EtherCAT (DS402)	EtherCAT (DS402)	EtherCAT (DS402)