

c430/c520/c550 controllers



Lenze's new generation of cabinet controllers is the perfect answer for applications demanding multiple axes at high speed where CiA 402 motion over Ethercat is used.

Attain high-end control in applications such as printing machines with many units or pick and place lines with multiple robots. Implementation is easy with Lenze's suite of commissioning tools.

Product comparison

	c430	c520	c550
			
OPC UA			
Update rate	200ms*	100ms	100ms
FAST			
Axis	Up to 4 axis**	Up to 10 axis**	Up to 30 axis**
Recommended for robotics	No	Yes	Yes
FAST UI			
Powertags	Up to 500	Up to 1000	Up to 2000
Fieldbus			
Switch	Yes	No	No
Asset Management · Security · Diagnostics · Error Management			
	Yes	Yes	Yes

* Data Limited for Pub/Sub

** Number of Axis with 2 ms and Technology Basic Motion

Features and Benefits

- **High computing power for demanding motion control**
c430 — Arm® Cortex®-A9 866 MHz processor
c520 — Intel® Atom™ 1.6 GHz processor
c550 — Intel® Core™ i7 2.8 GHz processor
- **Maintenance-free and temperature resistant**
The battery-free design and the extended ambient operating temperature of 60 °C/140 °F enables use in all areas of industry
- **Switchable fieldbus function for c430**
Ethernet Switch, PROFINET IO-Device, or EtherCAT slave
- **Optional fieldbus extension available on c520/c550**
PROFINET IO-Device or EtherCAT slave
- **Pair with EASY UI Designer and v430/v450 web panel**
Enjoy state-of-the-art web-based machine visualizations
- **Familiar engineering tools**
The engineering tools are the same used for all Lenze products making implementation easy and consistent

	c430	c520	c550
			
Design/mounting			
	DIN rail		
Degree of protection			
	IP20		
Market approvals			
Approval	CE, UKCA, UL		
Environment	RoHS		
CPU technology			
	Arm® Cortex®-A9 800 MHz	Intel Atom® 1.6 GHz	Intel® Core™ i7 2.8 GHz
Operating system			
	RT Linux		
OPC UA			
Update rate	200ms Client/Server Publish/Subscribe (limited)	100ms Client/Server Publish/Subscribe	100ms Client/Server Publish/Subscribe
Memory			
Flash memory	4 GB		8 GB
RAM memory	2 GB		4 GB
Retain data on SD	512 kB	1024 kB	
Interfaces			
Optional interfaces	1x EtherCAT master		
	PROFINET-Device (150 AC) EtherCAT-Slave (100 AC) 2 Port Switch	PROFINET-Device (HW) EtherCAT-Slave (HW)	
Ethernet	1x Ethernet 1000 Mbps/s 2x Ethernet 100 Mbps/s	1x Ethernet 1000 Mbps/s	
USB	1x USB 2.0	2x USB 2.0	
Voltage supply	24 V DC (3-pos. terminal)		
Web based visualization			
	EASY UI Runtime Powertags 500	EASY UI Runtime Powertags 1000	EASY UI Runtime Powertags 2000
Cooling			
	Passive		Active (replaceable fan)
Ambient operating temperature	3K3 (0 ... +60 °C/+140 °F) EN IEC 60721-3-3		

Dimensions	c430	c520	c550
Width	1.97 in (50 mm)	5.43 in (138 mm)	7.83 in (199 mm)
Height	5 in (127 mm)	5.71 in (145 mm)	5.71 in (145 mm)
Depth	4.25 in (108 mm)	4.51 in (114.5 mm) with plugs	4.51 in (114.5 mm) with plugs