



OPEN-XS



Particularly flexible element of the **OPENcontrol** family, OPEN-XS is a modular system that can be applied as a **CNC** or as a **General Motion Control**. It offers a solution for both the control of servo-drives and I/O modules distributed on a **digital fieldbus**, and also for the control of **analog** or **Pulse & Direction** axes.

There are many modules to build specific OPEN-XS configurations, with the same form factor for easy pairing:

- The **real-time Control Unit** is based on a PC platform. It uses an ATOM N270 1.6 GHz CPU and is a complete entry-level system to manage servo drives and I/O controlled through a **digital fieldbus**. It can be supplied in the stand-alone configuration (Black Box) or integrated with a monitor or with the new Compact Control Panel.

Two different OPEN-XS models, based on the same control unit, allow management of digital servo drives controlled by

- the new **Mechatrolink III** protocol
- the EtherCAT protocol whether based on CANopen or Sercos profile (CoE or SoE)

When servo drives controlled by an Analog or Pulse & Direction signal are preferred, four different additional modules with integrated I/Os are available.

- The **4 axes slave module (A-432 / P-432)**, connected to the real-time control unit via EtherCAT bus, is an integrated solution that offers a wide set of local I/O and the electronics for controlling axes driven with an **Analog (A-432)** or **Pulse&Direction (P-432)** signal with feedback.

When linked to this module, OPEN-XS is transformed into a motion control system that includes numerous digital and analog I/O points while maintaining a high performance/price ratio.

- The **6 axes slave module (A-664 / P-664)**, which is optimized for the control of 5 axes machine tools with gantry axis, follows the same philosophy but provides more resources.

In this case there is no axes limit: OPEN-XS can control more than one slave module to manage the desired number of axes.



OPEN-XS Control Unit		
CPU	Intel® Atom™ N270 1.6GHz	
Storage	Compact Flash 1GB - 4 GB / SSD 32GB	
RAM	2 GB	
Monitor port	VGA	
Ethernet	1x 10/100/1000 Mbps	
USB	3x 2.0	
Serial Line	2x RS232 - 1x RS232/422/485	
Fast Input	4	
Fast Output	3	
Emergency Stop	1	
Operating System	Windows CE 6.0	
Power Supply	24 VDC	
Power Consumption	1.8 Amp at 24VDC	
Controlled axes	Max 8	
Primary Fieldbus	Mechatrolink III	EtherCAT (SoE and CoE)
Secondary Fieldbus	EtherCAT	CANopen

	A-432 4 Analog axes module	P-432 4 Pulse&Direction axes module
Number of axes	4 analog	4 Pulse&Direction
Axes feedback	Incremental encoder	
Digital Input	32	
Digital Output	32	
Analog Output	2x 16 bit	-
Analog Input	4x 12 bit	
Spindle Output	1 analog out 16 bit	
Handwheel Input	1x encoder ABZ	
Power Supply	24 Vdc	

	A-664 6 Analog axes module	P-632 6 Pulse & Direction axes module
Number of axes	6 Analog	6 Pulse & Direction
Axes feedback	Incremental encoder	
Digital Input	64	
Digital Output	64	
Analog Input	4 x 12 bit	
Spindle Output	1x analog out 16 bit	
Handwheel Input	1x encoder ABZ	
Power Supply	24 Vdc	