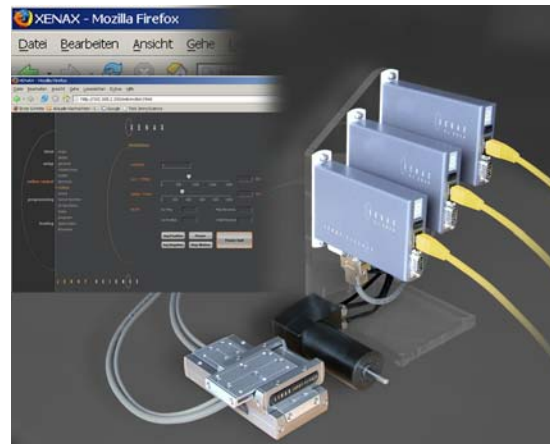
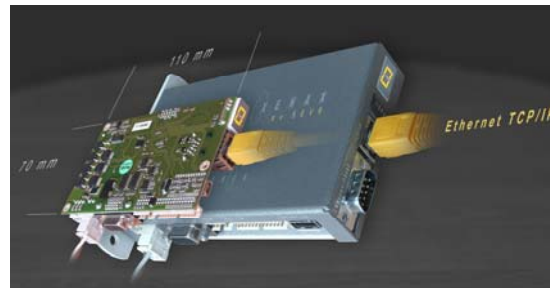


## XENAX® Xv 50V6, Xvo 50V5 OEM

Overview May 2007

Ethernet Servo controllers  
for AC / DC / EC servo motors



### Compact Ethernet servo controllers with TCP/IP web technology

Starting and setup via web browser. All user setups can be saved on PC and by Xv 50V6 optionally on start-up key. Flexible machine integration with various interfaces. Fully programmable for stand-alone running. PLC functionality via 12 inputs and 8 outputs.

## Motor types for XENAX

### LINAX® linear axis

3 phase linear motor  
with linear encoder,  
RS422 A/A\*, B/B\* and R/R\*

Specially supported are the following:  
distance coded reference mark, no external  
home sensor is necessary.  
Temperature query over I<sup>2</sup>C bus

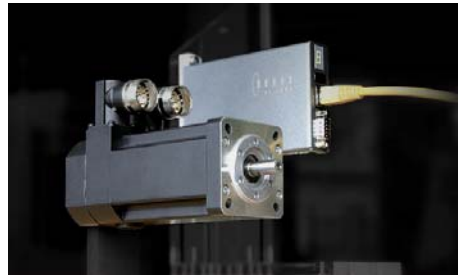


LINAX®, linear axes from the construction set

### Servo motors

AC servo motor with encoder A/A\*, B/B\*  
and Z/Z\* with or without hall sensors

e.g. AEG B28 D4 from our range  
0,4Nm, 6000 rpm  
Optional with brake for vertical  
applications



### Mini motors

AC / DC / EC brushless servo motors  
with incremental encoder RS422 A/A\*,  
B/B\* and Z/Z\* and hall sensors, as well  
as DC brush-type servo motors with  
incremental encoder.

e.g. „Faulhaber“, „Minimotor“,  
„Maxon“



**FAULHABER GROUP**



**maxon motor**



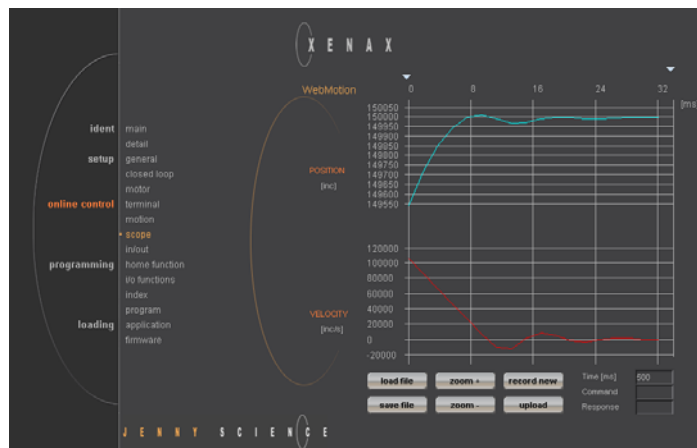
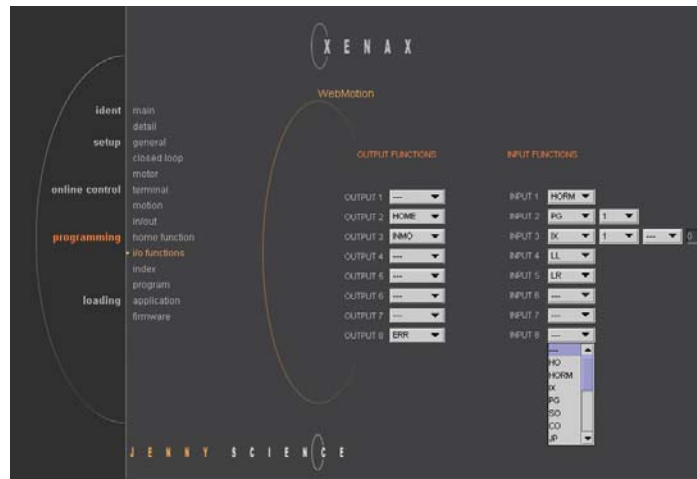
## Special Features

### Powerful Firmware- and peripheral functions

The servo controllers XENAX® are able to control linear motors as well as conventional rotative DC-, EC- and AC-servo motors. The controller works with a vector oriented rotating field control. Typical input is 24V or 48V, peak motor current up to 12A.

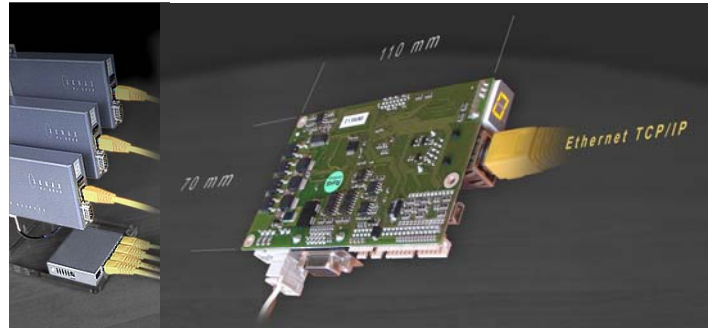
The units are fully programmable with 50 move profiles, 63 programs and provide 8 outputs and 12 inputs. With the outputs it is possible to signal statuses as well as to control valves, relay, SPS inputs etc. The 12 inputs can be linked flexible with functions or whole programs or they can acquire limit switches, sensors or statuses. Furthermore there is the possibility to encode 4 inputs binary to activate 15 different programs directly. Optimally prepared for stand alone operating without superior intelligence.

For the first time in this compact unit category the TCP/IP Ethernet interface is available. Also interesting are the additional interfaces such as RS232, RS485, CANopen, pulse-/direction, master encoder and analogue.



**Multi-axis operation**

Simple, efficient TCP/IP standard. Cost effective devices. Significant time saving through elimination of complicated special protocols. The XENAX® devices are connected to PC/PLC/Laptop via simple Ethernet switch. Easy implementation with Delphi®, Labview®, Visual Basic® etc. You achieve fast response times < 1ms with a separate Ethernet channel.



**Software libraries**

To reduce development time and minimize the error rate at the same time the developer can go back to encapsulated software modules. The so-called Dynamic Link Library (DLL) provides a library of functions for motor controlling via TCP/IP on PC-based systems. Additional support is provided by the implementation examples for DELPHI and VISUAL C++. In addition to that a functional library for SPS development environment CoDeSys and Beckhoff TwinCAT is available. Thereby the user benefits of functional blocks according to PLCopen, MotionControl standard.



**Start-up Key**

The Start-up Key contains an EEPROM where the complete application can be stored. Application = all data and parameters programmed by the user. (SETUP, INDEX, PROGRAM, HOME, bus baud-rate etc.)

On its reverse side, the Start-up Key has 2 code switches for adjusting the field bus Node address (Identifier) from 01 – 99



**Performance data XENAX**

Voltage	U 12-50VDC
Nominal current Xv 50V6	In 0-6A
Nominal current Xvo 50V5 OEM	In 0-5A
Peak current	Ip 12A
Temperature sensor	T 85°
Over-voltage monitor	Ov 58V
Ballast circuit	up to 80W

**Electronic, Firmware**

Interfaces	Ethernet, TCP/IP, http Web Server
Xv 50V6	RS232, RS485, pulse/direction, analogue, master encoder, I/O, CANopen
Xvo 50V5 OEM	RS232, pulse/direction, analogue, master encoder, I/O
Fieldbus, multi-axis running	Ethernet Switch, TCP/IP, CANopen
Status display	7-Segment display
Input digital	12 Input for sensors and to start a function or a program directly
Output digital	8 Output to control actuators and to show a status electrically
Home Function	Free programmable, incl. external sensor
Index	50 move profiles (accel. / speed. / way, position)
I/O pre-selected application programs	15, Input 9-12 binary coded (MODE >=10)
Firmware Update	Via TCP/IP, Flash-Memory internal
Application and Parameter Update	Via TCP/IP, Flash-Memory internal

**Options Xv 50V6**

CANopen	DS402
Start-up Key	ID number and application memory
E2	Second encoder channel for CAM profiles

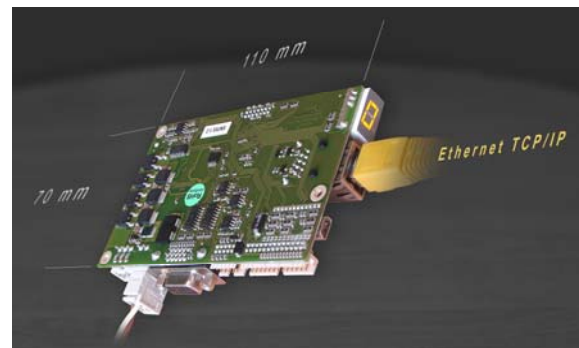
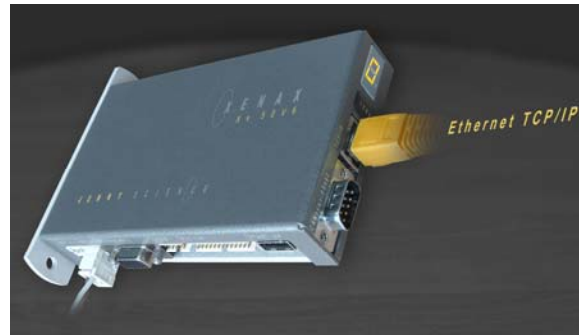
**Options Xvo 50V5 OEM**

E2	Second encoder channel for electronic gear
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**Supplies for Xvo 50V5 OEM**

If there is not XPort with Ethernet and Websurfer put on → price advantage WebMotion® Ethernet adapter with cable

## Dimensions



Xv 50V6 L=142mm, H=85mm, T=25mm  
Xvo 50V5 OEM L=110mm, H=70mm, T=18mm

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