Product Data



JVL ...when motors must be controlled

WLAN industrial Expansion Module for MAC motors. Type MACOO-EW4



A range of integrated AC servo motors makes JVL a world leader within motion control. The numerous features of these motors include a modular concept that makes it extremely easy to adapt the motors to a very wide range of applications.

This wireless ethernet module MACO0– EW4 now makes it possible to use wireless control of the motors, giving total freedom of cables.

The module makes it possible to have a direct WLAN connection to the motor. Via the WLAN connection, the motor can be set-up and controlled with the same possibilities as offered by a serial connection. Functionality is exactly as with the MACOO-R4 module, but in-

stead of the serial connector the EW4 module is equipped with an antenna. The module can be programmed via MacTalk. Control is typical from a mobile phone or a PC. On a PC the program MacTalk can be used directly, or commands can be send from your own program.

The module furthermore has the possibility for connection of a local zeroset sensor. Connection of supply and signals takes place through 3 robust M12 connectors.

The module has a standard antenna plug connection, where the included antenna is connected. Other antennaes

can be connected if required.

Applications:

- Positioning of axes.
- Supervision of motor.
- Parameter setup.

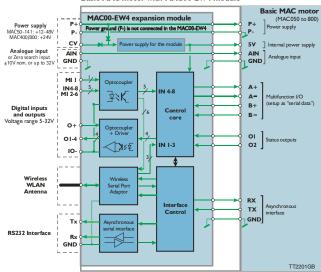
Function

- The solution gives full access to all functions and registers in the MAC motor.
- Baud rates of 19200
- Wireless control of the motor
- 4 In- and 4 Outputs
- Programmable via wireless control with MacTalk
- Supports both 802.11b and 802.11b1g standards
- Integrated WEB server
- No software driver needed

LD0074-02GB Date: 19-7-07

Block Diagram

Basic MAC motor with MAC00-EW4 module



Pin Connections

Signal name	input. M12 – 5 pin male connector Description	Pin no.
P+	Main supply+12-48VDC.	1
P+	Main supply+12-48VDC	2
P-	Main supply ground	3
CV	Control voltage	4
P-	Main supply ground	5
"IO1" Basic I/	O's. M12-8pin male connector	
Signal name	Description	Pin no.
MI1	Mirror input I1	1
IN4/MI2	Digital input 4 and Mirror I2	2
IN5/MI3	Digital input 5 and Mirror I3	3
IN6/MI4	Digital input 4 and Mirror I4	4
01	Digital output 1 - PNP output	5
02	Digital output 2 - PNP output	6
0+	Output supply +5-32VDC. used for 01-4.	7
10-	I/O ground. Used for IN4-8, MI1-MI4 and O1-4	8
"102" - Exter	ided I/O's. M12 - 8pin female conn	ector
Signal name	Description	Pin no.
IN7/MI5	Mirrored input A	1
RS232: Tx	RS232 Transmit	2
RS232: Rx	RS232 Receive	3
GND	Ground for AIN. This ground is shared with the main ground	4
03	Digital output 3 - PNP output	5
04	Digital output 4 - PNP output	6
AIN	Analog input +/-10V (also used for zero search sensor)	7
IN8/MI6	Digital input 8 and Mirror I6	8

Accessories



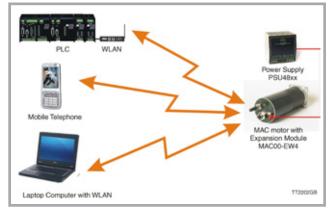
-MA0006: Antenna stand for relocation with 1m cable.



MA0002: 70mm antenna on 3m cable.



-MA0004: Antenna, rugged stub. 1pcs. delivered together with the module



Examples of communication possibilities with the WLAN Expansion module. Note: Only one of the possibilities can communicate at a time.

Specifications

802.11 Specification:

Quality of service: Supports 802.11e and WMM.

Security: Supports 802.11i and WPA.

PHY/MAC:

802.11b and 802.11g. Extended rate protection. Regulatory domain support. Power save control. Defragmentation. Antenna diversity.

Infratructure modes:

BSS. IBSS.

Security:

WEP64/128. WPA-EAP-TLS. WPA-PSK. WPA2-PSK. TKIP. CCM (AES).

Quality of service:

802.11e. WMM.

Software:

All software is included in the module.

Configurable locally or over WLAN using AT commands, PC wizard or MacTalk.

Additional Features:

TX power calibration. Link adaptation. Fragmentation. DTIM based power management.

Raw TCP. UDP. Http Tunneled. Secure HTTP (TLS). Secure TCP. Ad-hoc and infrastructure mode. Integrated web server. DHCP-client. DNS resolver. Integrated statistics logger. Web server with ASP. User configurable web pages.

Protocols:

TCP. UDP. HTTP. HTTPS. TCPS. Telnet.

Baud rate:

19200 bits/s.

Antenna connection:

SMA.



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