PacDrive 3 automation solution

PacDrive LMC motion controllers
(LMC Eco/Pro/Pro2)

Catalog

March 2016

Schneider Electric

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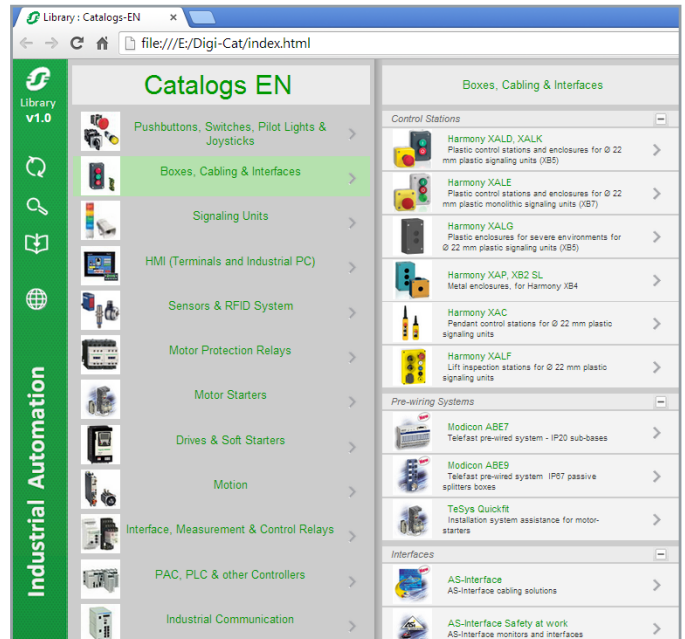
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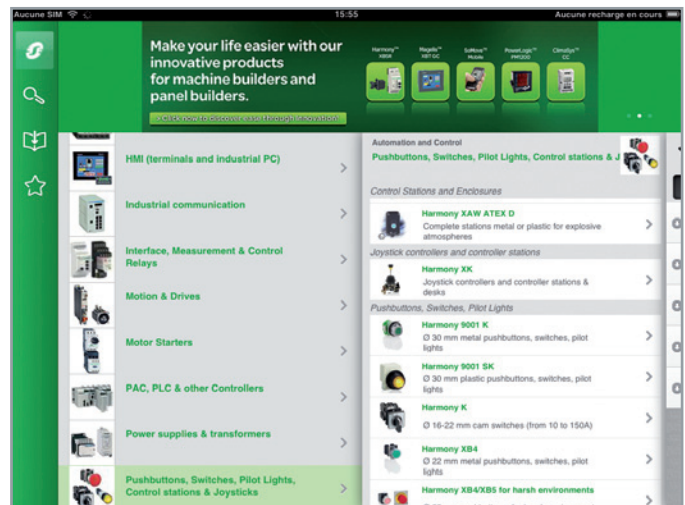
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General contents

PacDrive 3 automation solution
PacDrive LMC motion controllers (LMC Eco/Pro/Pro2)

PacDrive LMC motion controllers

Memory card

Controls
Scalable performance for high-performance industrial machines

PacDrive LMC motion controllers cover a wide range of applications.

> Full software compatibility

PacDrive LMC motion controllers are a broad family of eleven different controllers, with a powerful CPU for applications requiring 0 to 130 synchronized axes (at 1 msec network update rate)

■ up to 130 servo axes, and up to 255 virtual axes
■ with multiple fieldbuses used in parallel to Sercos: CANopen, Profibus DP, etc.

All controllers are software-compatible, thanks to SoMachine Motion programming software, a Logic Motion Runtime software:

□ same runtime
□ same libraries
□ same engineering tool
□ same diagnostic tools
□ same support of drives, IOs, etc.

Up to 4096 dynamic electronic cam disks can be programmed to operate in parallel. The program can switch between electronic cam disks during operation. All controllers have an integrated PLC (5 µsec for 1000-bit instructions).

> Benefits for you and your customers

■ **Diagnostics functionalities included**: integrated software oscilloscope and message logger
■ **Outstanding performance**: powerful motion engine
■ **Connectivity**: broad support of fieldbuses and IT communication protocols
■ **Service-oriented**: memory card for storing/transferring programming and configuration data
■ **Easy to service**: no PC required, integrated plaintext display in five languages for system messages and diagnostics

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PacDrive 3 automation solution
PacDrive LMC motion controllers
Controls

Controls

Ethernet-based communication with Sercos

Sercos is the preferred automation bus for PacDrive:

- Drive communication
- I/O communication
- Safe communication and non realtime IP communication
- All embedded in one cable

- Cat 5e
- Baudrate: 100 Mbps
- Cycle time: 1 ms…4 ms
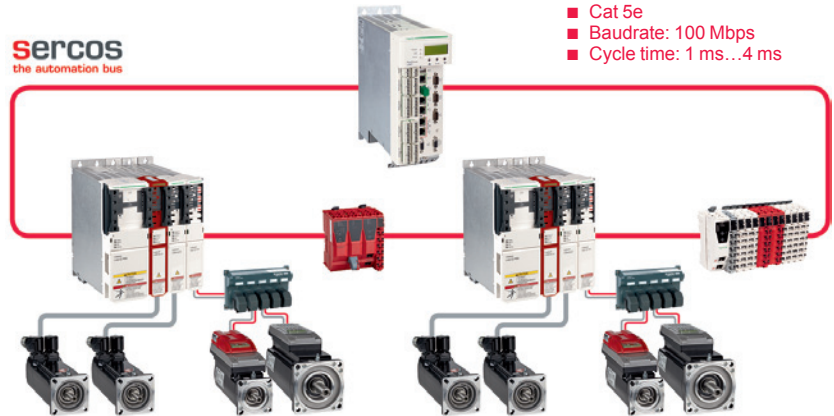
> **Key benefits of Sercos for PacDrive**

- **Universal:** fully integrated Ethernet-based solution for drive, fieldbus, and safety communication
- **Reliable:** media redundancy to reduce probability of failure
- **Powerful:** network update rate of 1…4 ms for 130 servo axes. Less than 100 ns jitter
- **Cost-effective:** simple, no hub or switches, Cat 5e cable is generally sufficient
- **High availability:** Sercos supports all PacDrive functions for automating the setup of servo drives/motors, including assignment of bus address
- **Vendor-neutral:** supported by more than 50 controller manufacturers and 30 drive manufacturers
- **Green:** Sercos energy profile defines rules for creating standardized energy modes

> **Flexible I/O design with standard and safe I/O**

The modular Schneider Electric Modicon TM5 *(1)* and Modicon TM7 *(1)* systems for Sercos provide I/O technology with IP 20 and IP 67 protection. Safe communication versions of both TM5 and TM7 safety modules are available, color-coded to clearly differentiate them from standard technology. Standard and safe I/O modules can be mixed.

> **Connectivity**

- In addition to the Sercos automation bus, PacDrive LMC motion controllers support the following communication standards:
- ☐ Fieldbuses:
  - Profinet
  - Profibus DP
  - CAN
  - EtherNet/IP
  - EtherCat
  - Modbus TCP
- ☐ IT protocols:
  - TCP/IP
  - UDP/IP
  - OPC UA
  - FTP
  - HTTP (embedded web vizualization)
- ☐ Serial communication:
  - USB / serial interface
- Optional expansion cards are also available for all controllers to implement additional fieldbus interfaces such as EtherNet/IP. USB and serial interfaces are also standard in all controllers. The PacDrive LMC controllers also have a Profibus DP interface (Master and Slave).

(1) For more information, Please refer to our catalogs: "Modicon TM5, expansion modules", "Pacdrive 3 Safety Modicon TM5-TM7", and "Modicon TM7, IP 67 modular I/O system".

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Eco/Pro/Pro2 controllers

Motion controller type		PacDrive LMC Eco						PacDrive LMC Pro			PacDrive LMC Pro2	
		LMC100	LMC101	LMC106	LMC201	LMC212	LMC216	LMC300	LMC400	LMC600	LMC402	LMC802
Processor		Intel Atom 1.6 GHz						Intel Celeron M 1.5 GHz	Intel Celeron M 1.5 GHz	Intel Pentium M 2 GHz	Intel Celeron 2000E 2.2 GHz	Intel Celeron 2000E 2.2 GHz
		512 KB L2 Cache						512 KB L2 Cache	1 MB L2 Cache	2 MB L2 Cache	2 MB Smart Cache	2 MB Smart Cache
RAM		512 MB DDR2 RAM						512 MB DDR2 RAM			1 GB DDR3L	
NV RAM		128 KB						128 KB	256 KB		256 KB	
Power supply	Supply voltage	24 VDC						24 VDC			24 VDC	
	Supply consumption	30 W						36 W			36 W	
Battery		Yes						Yes			Yes	
Memory card		At least 512 MB (SD Card)						At least 128 MB (CF Card)			At least 128 MB (CF Card)	
Cooling		Passive						Fan			Fan	
Real-Time Clock (RTC)		Yes						Yes			Yes	
Real-Time Operating System		VxWorks and SEAAutomation Kernel						VxWorks and SEAAutomation Kernel			VxWorks and SEAAutomation Kernel	
Input	Digital input	8						20			20	
	Touchprobe input	4						16			16	
	Interrupt input	-						4			4	
	Analog input	-						2			2	
Output	Digital output	8						16			16	
	Analog output	-						2			2	
Number of drives		0 servo axes	4 servo axes	6 servo axes	8 servo axes	12 servo axes	16 servo axes	8 servo axes	16 servo axes	99 servo axes	16 servo axes	130 servo axes
Integrated communication	CAN	1 (9 pin SUB-D plug x1)						1 (9 pin SUB-D plug x1)			1 (9 pin SUB-D plug x1)	
	RS232	1 (RJ45 x1)						1 (9 pin SUB-D plug x1)			1 (9 pin SUB-D plug x1)	
	RS422/RS485	1 (RJ45 x1)						1 (9 pin SUB-D plug x1)			1 (9 pin SUB-D plug x1)	
	USB-A	1 (USB x1)						1 (USBx1)			1 (USBx1)	
	Profibus DP-DP	-						1 (9 pin SUB-D socket x1)			1 (9 pin SUB-D socket x1)	
	Master encoder	1 (RJ45 x1)						1 (9 pin SUB-D socket x1)			1 (9 pin SUB-D socket x1)	
	Ethernet	1 (RJ45 x1)						1 (RJ45 x1)			1 (RJ45 x1)	
	Realtime Ethernet	-						1 (RJ45 x2)			1 (RJ45 x2)	
	Sercos	1 (RJ45 x2)						1 (RJ45 x2)			1 (RJ45 x2)	
	PacNet	-						1 (RJ45 x1)			1 (RJ45 x1)	

PacDrive 3 automation solution
PacDrive LMC motion controllers
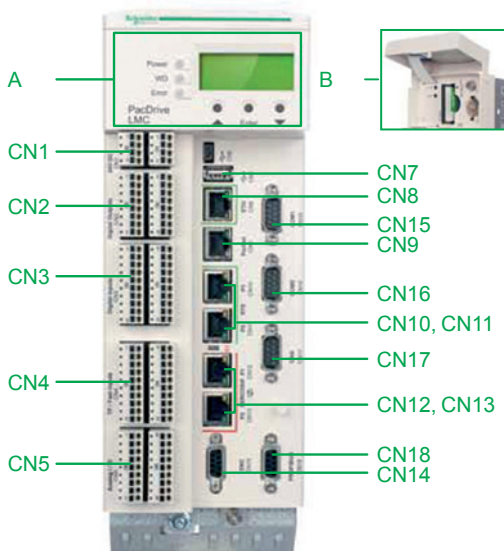### PacDrive LMC Eco/Pro/Pro2 controllers

Motion controller type		PacDrive LMC Eco LMC100, LMC101, LMC106, LMC201, LMC212, LMC216	PacDrive LMC Pro LMC300, LMC400, LMC600	PacDrive LMC Pro2 LMC402, LMC802
Integrated I/O				
Touchprobe input	Number	4	16	16
	Nominal input voltage	24 VDC	24 VDC	24 VDC
	Input filter	100 µs	100 µs	100 µs
	TP0 to TP15	10 µs	10 µs	10 µs
Digital input	Number	8	20	20
	Nominal input voltage	24 VDC	24 VDC	24 VDC
	Input filter	–	1 or 5 ms (can be parameterized)	1 or 5 ms (can be parameterized)
Interrupt input	Number	–	4	4
	Nominal input voltage	–	24 VDC	24 VDC
	Input filter	–	0.1 or 1 ms (can be parameterized)	0.1 or 1 ms (can be parameterized)
Analog input	Number	–	2	2
	Type	–	Voltage/current	Voltage/current
	Range	–	- 10…10 V (resistor 100 kOhm) - 20…20 mA	- 10…10 V (resistor 100 kOhm) - 20…20 mA
	Resolution	–	12 bits	12 bits
Digital output	Number	8	16	16
	Output voltage	24 VDC	24 VDC	24 VDC
	Nominal current (Ie)	100 mA per output	250 mA per output	250 mA per output
	Transmission time	100 µs	100 µs	100 µs
	Short-circuit protection	Yes	Yes	Yes
Analog output	Number	–	2	2
	Type	–	Voltage	Voltage
	Range	–	-10…10 V	-10…10 V
	Resolution	–	12 bits	12 bits
Communication				
Bus connections	Integrated motion bus	Sercos	Sercos	Sercos
	Integrated additional fieldbus connection (configuration 1)	CANopen (Master/Slave)	Profibus DP Master/Slave and CANopen (2.0B)	Profibus DP Master/Slave and CANopen (2.0B)
	Integrated additional fieldbus connection (configuration 2)	–	RT-Ethernet (2 ports) and Profibus DP (Master/Slave) or CANopen (2.0B)	RT-Ethernet (2 ports) and Profibus DP (Master/Slave) or CANopen (2.0B)
	PacNet interface	–	1	1
Communication/interface	Serial interfaces	COM1: RS232 COM2: RS422/RS485	COM1: RS232 COM2: RS422/RS485	COM1: RS232 COM2: RS422/RS485
	Network connection	1x Ethernet 10/100 BASE-T	1x Ethernet 10/100 BASE-T	1x Ethernet 10/100/1000 BASE-T
	USB connection	1x USB-A-2.0	1x USB-A-2.0	1x USB-A-2.0
	Master encoder interface	1x Hiperface® master encoder or 1x incremental master encoder	1x Hiperface® master encoder or 1x incremental master encoder	1x Hiperface® master encoder or 1x incremental master encoder
	Programming interface	Ethernet	Ethernet	Ethernet
	Additional encoder input via PacNet interface	–	Up to 4 Hiperface encoder inputs and up to 8 incremental master encoder outputs	Up to 4 Hiperface encoder inputs and up to 8 incremental master encoder outputs
	Master encoder output via PacNet interface	–	Up to 4x incremental master encoder outputs	Up to 4x incremental master encoder outputs
	Integrated OPC interface	OPC-UA Server	OPC-UA Server	OPC-UA Server
	Diagnostic interface for remote maintenance	Ethernet or Modem	Ethernet or Modem	Ethernet or Modem
	Communication protocols	HTTP (Hypertext Transfer Protocol) FTP (File Transfer Protocol)	HTTP (Hypertext Transfer Protocol) FTP (File Transfer Protocol)	HTTP (Hypertext Transfer Protocol) FTP (File Transfer Protocol)
	Communication modules	1 Option module	Up to 2 Option modules	Up to 2 Option modules
		■ RT-Ethernet □ Profinet IO-RT (Controller) □ EtherNet/IP (Scanner / Adapter) □ EtherCAT IO (Master/Slave) ■ Profibus DP (Master/Slave)	■ CANopen ■ Profibus DP ■ RT-Ethernet □ Profinet IO-RT (Controller) □ EtherNet/IP (Scanner / Adapter) □ EtherCAT IO (Master/Slave) ■ RT-Ethernet x2 ■ RT-Ethernet and CANopen ■ RT-Ethernet and Profibus DP	■ CANopen ■ Profibus DP ■ RT-Ethernet □ Profinet IO-RT (Controller) □ EtherNet/IP (Scanner / Adapter) □ EtherCAT IO (Master/Slave) ■ RT-Ethernet x2 ■ RT-Ethernet and CANopen ■ RT-Ethernet and Profibus DP

Description

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Eco/Pro/Pro2 controllers
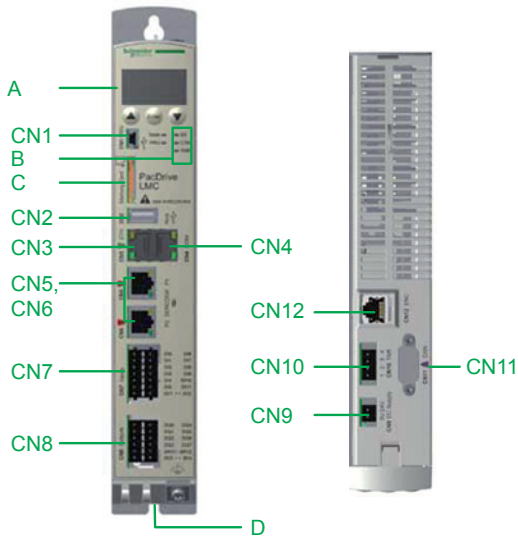
PacDrive LMC Eco controller – description
LMC100, LMC101, LMC106, LMC201, LMC212, LMC216

Item	Function
A	LCD and LED
B	LED connector
C	SD card
D	Optional module slots
CN1	USB client (not active)
CN2	USB Host
CN3	Ethernet
CN4	COM: RS232/RS485
CN5, CN6	Sercos
CN7	12 digital input and 4 touchprobe input
CN8	8 digital output
CN9	24 VDC power supply
CN10	Not active
CN11	CAN/CANopen
CN12	Master encoder

PacDrive LMC Pro and Pro2 controller – description
LMC300, LMC400, LMC600, LMC402, LMC802

Item	Function
A	LCD and LED
B	CF card and battery
CN1	24 VDC power supply and Watchdog
CN2	16 digital output
CN3	20 digital input
CN4	16 touchprobe input and 4 fast input
CN5	2 analog input and 2 analog output
CN7	USB host
CN8	Ethernet
CN9	PacNet
CN10, CN11	RT-Ethernet
CN12, CN13	Sercos
CN14	Master encoder
CN15	COM1: RS232
CN16	COM2: RS422/RS485
CN17	CANopen
CN18	Profibus DP

Type code,
references

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Eco/Pro/Pro2 controllers

PacDrive LMC Eco/Pro/Pro 2 controllers – type code

LMC	●●●	C	●●	1	0000

Internal
0000= Standard

Hardware
1

Module
AA= None *(1) (2) (3)*
BB= CANopen option module *(2) (3)*
BC= Profibus DP option module *(2) (3)*
BD= RT-Ethernet option module *(2) (3)*
BG= RT-Ethernet option module x2 *(2) (3)*
BI= CANopen option module + RT-Ethernet option module *(2) (3)*
BL= Profibus DP option module + RT-Ethernet option module *(2) (3)*
CA= Uninterruptible power supply *(2) (3)*
CB= Uninterruptible power supply + CANopen option module *(2) (3)*
CC= Uninterruptible power supply + Profibus DP option module *(2) (3)*
CD= Uninterruptible power supply + RT-Ethernet option module *(2) (3)*
CG= Uninterruptible power supply + RT-Ethernet option module x2 *(2) (3)*
CI= Uninterruptible power supply + CANopen option module + RT-Ethernet option module *(2) (3)*
CL= Uninterruptible power supply + Profibus DP option module + RT-Ethernet option module *(2) (3)*

Type
C= Controller base

Size
100= Max. 0 servo axes *(1)*
101= Max. 4 servo axes *(1)*
106 = Max. 6 servo axes *(1)*
201= Max. 8 servo axes *(1)*
212= Max. 12 servo axes *(1)*
216= Max. 16 servo axes *(1)*
300= Max. 8 servo axes *(2)*
400= Max. 16 servo axes *(2)*
600= Max. 99 servo axes *(2)*
402= Max. 16 servo axes, increased CPU performance *(3)*
802= Max. 130 servo axes, increased CPU performance *(3)*

Family
LMC= PacDrive LMC controller

(1) For PacDrive LMC Eco controllers.
(2) For PacDrive LMC Pro controllers.
(3) For PacDrive LMC Pro2 controllers.

References

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Eco controllers

PacDrive LMC Eco controller

VW3E704000000

VW3E704100000
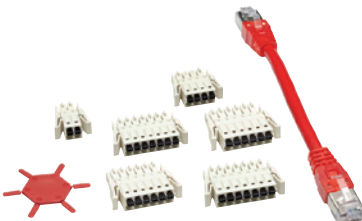
VW3E6019

VW3E70360AA00

PacDrive LMC Eco controllers – references

Size	Max. number of controlled servo axes	Options	Reference	Weight kg/*lb*
LMC100	0	– (basic)	**LMC100CAA10000**	2.200/ *4.85*
LMC101	4	– (basic)	**LMC101CAA10000**	
LMC106	6	– (basic)	**LMC106CAA10000**	
LMC201	8	– (basic)	**LMC201CAA10000**	
LMC212	12	– (basic)	**LMC212CAA10000**	
LMC216	16	– (basic)	**LMC216CAA10000**	

Nota: Accessory kit included in controller packaging as described below.

Spare parts for PacDrive LMC Eco controllers – references

Communication modules

Designation	Description	Reference	Weight kg/*lb*
Communication module Profibus DP	1x 9 pin SUB-D	**VW3E704000000**	0.080/ *0.18*
Communication module Ethernet real time (RT)	2x RJ45 ports	**VW3E704100000**	0.080/ *0.18*

Spare parts

Designation	Description	Reference	Weight kg/*lb*
Accessory kit	Complete connector set for PacDrive LMC Eco controllers (100C...216C) and Sercos cable (0.13 m / 0.43*ft*)	**VW3E6019**	0.100/ *0.22*
SD card	512 MB	**VW3E70360AA00**	0.025/ *0.06*

Programming software

SoMachine Motion software for PacDrive LMC Eco controllers	*Please refer to our catalog "SoMachine - PacDrive 3 Automation solution, SoMachine Motion software".*

References

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Pro controllers

PacDrive LMC Pro controller

PacDrive LMC Pro controllers – references

Size	Max. number of controlled servo axes	Options	Reference	Weight kg/*lb*
LMC300	**8**	– (basic)	**LMC300CAA10000**	3.500/ *7.72*
		CANopen option module	**LMC300CBB10000**	
		Profibus DP option module	**LMC300CBC10000**	
		RT-Ethernet option module	**LMC300CBD10000**	
		2x RT-Ethernet option modules	**LMC300CBG10000**	
		1x CANopen option module + 1x RT-Ethernet option module	**LMC300CBI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module	**LMC300CBL10000**	
		Uninterruptible power supply	**LMC300CCA10000**	
		CANopen option module + Uninterruptible power supply	**LMC300CCB10000**	
		Profibus DP option module + Uninterruptible power supply	**LMC300CCC10000**	
		RT-Ethernet option module + Uninterruptible power supply	**LMC300CCD10000**	
		2x RT-Ethernet option modules + Uninterruptible power supply	**LMC300CCG10000**	
		1x CANopen option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC300CCI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC300CCL10000**	
LMC400	**16**	– (basic)	**LMC400CAA10000**	3.500/ *7.72*
		CANopen option module	**LMC400CBB10000**	
		Profibus DP option module	**LMC400CBC10000**	
		RT-Ethernet option module	**LMC400CBD10000**	
		2x RT-Ethernet option modules	**LMC400CBG10000**	
		1x CANopen option module + 1x RT-Ethernet option module	**LMC400CBI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module	**LMC400CBL10000**	
		Uninterruptible power supply	**LMC400CCA10000**	
		CANopen option module + Uninterruptible power supply	**LMC400CCB10000**	
		Profibus DP option module + Uninterruptible power supply	**LMC400CCC10000**	
		RT-Ethernet option module + Uninterruptible power supply	**LMC400CCD10000**	
		2x RT-Ethernet option modules + Uninterruptible power supply	**LMC400CCG10000**	
		1x CANopen option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC400CCI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC400CCL10000**	
LMC600	**99**	– (basic)	**LMC600CAA10000**	3.500/ *7.72*
		CANopen option module	**LMC600CBB10000**	
		Profibus DP option module	**LMC600CBC10000**	
		RT-Ethernet option module	**LMC600CBD10000**	
		2x RT-Ethernet option modules	**LMC600CBG10000**	
		1x CANopen option module + 1x RT-Ethernet option module	**LMC600CBI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module	**LMC600CBL10000**	
		Uninterruptible power supply	**LMC600CCA10000**	
		CANopen option module + Uninterruptible power supply	**LMC600CCB10000**	
		Profibus DP option module + Uninterruptible power supply	**LMC600CCC10000**	
		RT-Ethernet option module + Uninterruptible power supply	**LMC600CCD10000**	
		2x RT-Ethernet option modules + Uninterruptible power supply	**LMC600CCG10000**	
		1x CANopen option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC600CCI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC600CCL10000**	

Nota: Accessory kit included in controller packaging as described below.

VW3E6004

VW3E70350AA00

Spare parts for PacDrive LMC Pro controllers – references

Spare parts

Designation	Description	Reference	Weight kg/*lb*
Accessory kit	Complete connector set for PacDrive LMC Pro/Pro2 controllers and Sercos cable (0.13 m / 0.43ft)	**VW3E6004**	0.100/ *0.22*
Compact flash memory card	512 MB	**VW3E70350AA00**	0.025/ *0.06*
Battery	Lithium battery front, 3 V	**VW3E6020**	0.060/ *0.13*

Programming software

SoMachine Motion software PacDrive LMC Pro controllers	*Please refer to our catalog "SoMachine - PacDrive 3 Automation solution, SoMachine Motion software".*

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References

PacDrive 3 automation solution
PacDrive LMC motion controllers
PacDrive LMC Pro2 controllers

PacDrive LMC Pro2 controller

PacDrive LMC Pro2 controllers – references

Size	Max. number of controlled servo axes	Options	Reference	Weight kg/*lb*
LMC402	**16**	– (basic)	**LMC402CAA10000**	3.500/ *7.72*
		CANopen option module	**LMC402CBB10000**	
		Profibus DP option module	**LMC402CBC10000**	
		RT-Ethernet option module	**LMC402CBD10000**	
		2x RT-Ethernet option modules	**LMC402CBG10000**	
		1x CANopen option module + 1x RT-Ethernet option module	**LMC402CBI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module	**LMC402CBL10000**	
		Uninterruptible power supply	**LMC402CCA10000**	
		CANopen option module + Uninterruptible power supply	**LMC402CCB10000**	
		Profibus DP option module + Uninterruptible power supply	**LMC402CCC10000**	
		RT-Ethernet option module + Uninterruptible power supply	**LMC402CCD10000**	
		2x RT-Ethernet option modules + Uninterruptible power supply	**LMC402CCG10000**	
		1x CANopen option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC402CCI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC402CCL10000**	
LMC802	**130**	– (basic)	**LMC802CAA10000**	3.500/ *7.72*
		CANopen option module	**LMC802CBB10000**	
		Profibus DP option module	**LMC802CBC10000**	
		RT-Ethernet option module	**LMC802CBD10000**	
		2x RT-Ethernet option modules	**LMC802CBG10000**	
		1x CANopen option module + 1x RT-Ethernet option module	**LMC802CBI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module	**LMC802CBL10000**	
		Uninterruptible power supply	**LMC802CCA10000**	
		CANopen option module + Uninterruptible power supply	**LMC802CCB10000**	
		Profibus DP option module + Uninterruptible power supply	**LMC802CCC10000**	
		RT-Ethernet option module + Uninterruptible power supply	**LMC802CCD10000**	
		2x RT-Ethernet option modules + Uninterruptible power supply	**LMC802CCG10000**	
		1x CANopen option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC802CCI10000**	
		1x Profibus DP option module + 1x RT-Ethernet option module + Uninterruptible power supply	**LMC802CCL10000**	

Nota: Accessory kit included in controller packaging as described below.

VW3E6004

VW3E7037000000

Spare parts for PacDrive LMC Pro2 controllers – references

Spare parts

Designation	Description	Reference	Weight kg/*lb*
Accessory kit	Complete connector set for PacDrive LMC Pro/Pro2 controllers and Sercos cable (0.13 m/ 0.43ft)	**VW3E6004**	0.100/ *0.22*
Compact flash memory card	512 MB	**VW3E7037000000**	0.025/ *0.06*
Battery	Lithium battery front, 3 V	**VW3E6020**	0.060/ *0.13*

Programming software

SoMachine Motion software for PacDrive LMC Pro2 controllers		*Please refer to our catalog "SoMachine - PacDrive 3 Automation solution, SoMachine Motion software".*

References

PacDrive 3 automation solution
PacDrive LMC motion controllers
Cables, terminals

VW3E5001R●●●

VBO04S00

VBO05S00

Cables, terminals – references

Sercos cables

Designation	Length m	ft	Reference	Weight kg/lb
Sercos cables for redundant Sercos ring Equiped with two RJ45 connectors	0.5	1.640	**VW3E5001R005**	0.045 / 0.10
	1	3.281	**VW3E5001R010**	0.065 / 0.14
	1.5	4.921	**VW3E5001R015**	0.068 / 0.15
	2	6.562	**VW3E5001R020**	0.081 / 0.18
	3	9.843	**VW3E5001R030**	0.124 / 0.27
	5	16.404	**VW3E5001R050**	0.199 / 0.44
	10	32.808	**VW3E5001R100**	0.325 / 0.72
	15	49.213	**VW3E5001R150**	0.610 / 1.34
	20	65.617	**VW3E5001R200**	0.810 / 1.79
	25	82.021	**VW3E5001R250**	1.020 / 2.25
	30	98.425	**VW3E5001R300**	1.220 / 2.69
	40	131.234	**VW3E5001R400**	3.100 / 6.83
	50	164.042	**VW3E5001R500**	2.020 / 4.45

Encoder cables

Designation	Length m	ft	Reference	Weight kg/lb
Incremental master encoder cable (UL)	1.5	4.921	**VW3E2097R015**	0.196 / 1.43
	5	16.404	**VW3E2097R050**	0.415 / 0.91
	10	32.808	**VW3E2097R100**	0.757 / 1.67
	15	49.213	**VW3E2097R150**	1.087 / 2.40
	20	65.617	**VW3E2097R200**	1.417 / 3.12
	30	98.425	**VW3E2097R300**	2.077 / 4.58
	40	131.234	**VW3E2097R400**	2.737 / 6.03
	50	164.042	**VW3E2097R500**	3.397 / 7.49

PacNet terminals

Designation	Description	Reference	Weight kg/lb
Bus terminal – 4/DIO1	PacNet bus terminal 16x digital inputs/16x digital outputs	**VBO04S00**	0.980 / 2.16
Bus terminal– 4/Enc1	PacNet bus terminal 2x master encoder inputs (incremental or SinCos) / 1x incremental encoder input and output	**VBO05S00**	0.790 / 1.74

PacNet and Patch cables (controller-Bus terminal-4) (1)

Designation	Length m	ft	Reference	Weight kg/lb
PacNet cables	0.5	1.640	**VW3E3001R005**	0.027 / 0.06
	1	3.281	**VW3E3001R010**	0.054 / 0.12
	2	6.562	**VW3E3001R020**	0.108 / 0.24
	3	9.843	**VW3E3001R030**	0.162 / 0.36
	5	16.404	**VW3E3001R050**	0.270 / 0.60
Patch cables	10	32.808	**VW3E3001R100**	0.540 / 1.19
	15	49.213	**VW3E3001R150**	0.810 / 1.78
	20	65.617	**VW3E3001R200**	1.080 / 2.38
	25	82.021	**VW3E3001R250**	1.350 / 2.98
	30	98.425	**VW3E3001R300**	1.620 / 3.57
	40	131.234	**VW3E3001R400**	2.160 / 4.76
	50	164.042	**VW3E3001R500**	2.700 / 5.95

(1) PacNet cables are available only in the given lengths.

References

PacDrive 3 automation solution
PacDrive LMC motion controllers
Robot controllers

LMC101CAA●●●●

LMC300CAA●●●●

LMC400CAA●●●●

LMC600CAA●●●●

Robot controllers – references				
Size	Number of synchronized servo axes	Number of license points included	Reference	Weight kg/*lb*
PacDrive LMC Eco robot controllers				
LMC101	**up to 4**	80	**LMC101CAA150RC**	3.500/ 7.72
LMC201	**up to 8**	80	**LMC201CAA150RC**	
		160	**LMC201CAA170RC**	
PacDrive LMC Pro robot controllers				
LMC300	**up to 8**	80	**LMC300CAA150RC**	3.500/ 7.72
		160	**LMC300CAA170RC**	
		240	**LMC300CAA180RC**	
		320	**LMC300CAA190RC**	
LMC400	**up to 16**	80	**LMC400CAA150RC**	
		160	**LMC400CAA170RC**	
		240	**LMC400CAA180RC**	
		320	**LMC400CAA190RC**	
LMC600	**up to 99**	80	**LMC600CAA150RC**	
		160	**LMC600CAA170RC**	
		240	**LMC600CAA180RC**	
		320	**LMC600CAA190RC**	
		999	**LMC600CAA1D0RC**	

Robot controller includes a number of license points and free support for robotics.
For details, Please refer to our catalog "SoMachine - PacDrive 3 Automation solution, SoMachine Motion software".

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