

LP40 [new]

PAC based on ARM Cortex A9 processor



LP40 family combines in a unique solution visualisation, control and remote assistance functions. Based on the real-time Windows Embedded Compact 7 Pro OS, LP40 panels integrate the numerous and advanced features of PHMI4 visualization software, in Basic or Advanced versions, CODESYS SoftPLC 3.5 and ASEM UBIQUITY. They are available with a wide range of 16 million colors LED backlight TFT LCD sizes with Aluminium (resistive touchscreen), Aluminium True Flat (resistive

touchscreen) or Aluminium True Flat Multitouch front panels (glass projected capacitive touchscreen). LP40 systems are based on the ARM Cortex A9 1.0 GHz processor (Freescale i.MX6 Quad Core, Dual Core, and Dual Lite) with 1 or 2 GB system RAM (DDR3-1600/800), 4 or 8 GB eMMC memory and a slot for a removable MicroSD memory card and 4 Mb MRAM memory (Magnetoresistive RAM) for retentive data storage at power down to be

used in combination with the MicroUPS. The motherboard includes the isolated 24 V DC power supply, two 10/100/1000 Mbps Ethernet interfaces, an RS-232/422/485 configurable serial port with MPI support, two USB 2.0 interfaces and the MicroUPS (removable and easily exchangeable). LP40, optionally, can be supplied with an isolated CAN interface or an additional isolated RS-485 serial port.



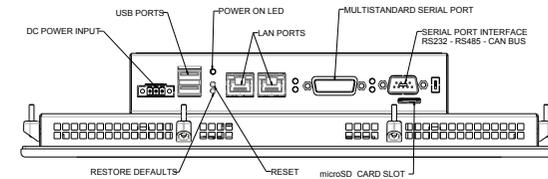
Highlights

- CODESYS SoftPLC for control applications with retentive data management via MicroUPS
- EtherCAT, Modbus TCP/IP, Modbus RTU and CANopen fieldbuses
- Premium HMI visualisation software
- Ubiquity Remote Assistance Software with remote access via VPN to the system and to Ethernet and Serial sub-networks
- 8.4", 10.4", 12.1", 15" displays in 4:3 aspect ratio; 10.1" and 12.1" displays in 16:10 aspect ratio, 7", 15.6" and 18.5" displays in 16:9 aspect ratio
- ARM Cortex A9 Quad Core, Dual Core or Dual Lite processor (1 GHz)
- MicroUPS (removable and easily exchangeable)
- Optional isolated CAN interface or additional isolated RS485 port
- Front panel in Aluminium or Aluminium True Flat with resistive touchscreen
- Front panel in Aluminium True Flat Multitouch with glass projected capacitive touchscreen (for 16:10 and 16:9 aspect ratio front panels)
- IP66 front degree of protection - Enclosure type 4X (Indoor use only)
- Isolated power supply with galvanic isolation
- Operating temperature 0°C+ +50°C

Gallery



I/O shield



Technical data

	LP40	LP40-TF
CONTROL SOFTWARE	CODESYS SP v3.x	
supported protocols	EtherCAT Master, MODBUS TCP Master, MODBUS RTU Master, CANopen Master	
HMI Software	PREMIUM HMI 4 BASIC/ ADVANCED	
REMOTE ASSISTANCE SW	ASEM UBIQUITY PRO	
SoftPLC SW	CODESYS SP	
O.S. INSTALLED	Windows Embedded Compact 7 Pro	
LED backlight TFT LCD	7" W - 800x480 8.4" - 800x600 10.1" W - 1280x800 10.4" - 800x600 12.1" - 800x600 12.1" - 1024x768 12.1" W - 1280x800 15.0" - 1024x768 15.6" W - 1366x768 18.5" W - 1366x768	
TOUCHSCREEN	Resistive 4 wires for 7" Resistive 5 wires for other sizes	
FRONT PANEL	Aluminium	Aluminium True Flat
PROTECTION GRADE	IP66, Enclosure type 4x - front	
PROCESSOR	ARM Cortex A9 processor Freescale® i.MX6 1 GHz	
SYSTEM MEMORY - RAM	1/2 GB with DDR3 chips soldered	
MASS STORAGE	4/8 GB eMMC (Solid State Disk) 8bit, file system organization for projects and applications 1 x Slot microSD	
LAN	4 Mb MRAM memory (Magnetoresistive RAM) for retentive data storage 2 x Ethernet 10/100/1000 Mbps (RJ45)	
USB	2 x USB 2.0 (Type-A, rear)	
SERIAL	1 x RS-232/422/485 (DB15M)	
FIELDBUS	1 x RS485 isolated (DB9M) with terminations (optional) 1 x CAN isolated channel (DB9M) and terminations (optional)	
POWER SUPPLY UNIT	24VDC isolated Backup for microinterruption, max 500ms, with supercapacitors	
OPERATING TEMPERATURE	0°- 50°C	
APPROVALS	CE, ATEX pending, cULus (508) pending	