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P30fanless

Industrial Automation - Products & Configurations

LP30 BASIC

Basic configuration > note 1

Basic configuration

LCD TFT 5,7" • Touch-Screen • Aluminum front panel • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • fanless • 24V DC power supply with backup for microinterruption function • Windows WEC • SoftPLC CODESYS SP v3,x WinCE/ARM • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • 12 months warranty

SoftPLC

SoftPLC CODESYS SP v3.x for WinCE/ARM runtime

Protocols: EtherCAT Master MODBUS TCP Master MODBUS RTU Master

Retentive variables: Automatic backup of retentive variables on eMMC at every system switch-off and/or power supply interruption

HMI SOFTWARE

Premium HMI 4 BASIC WinCE runtime

Premium HMI 4 ADVANCED WinCE runtime

REMOTE ASSISTANCE

ASEM LIBIOLITY PRO WinCE runtime

FRONT PANEL

Aluminum front panel • ASEM logo sticker

PROCESSOR

ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board

GFG > note 2 5,7" LCD TFT 4:3 • VGA, 640x480, 256K colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/45°:55° 5.7" touch-screen • 4 wires resistive technology • Controller integrated on board 7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/70°:60° 7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board 8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ.): 75°:75°/60°:70° nο 8,4" touch-screen • 5 wires resistive technology • Controller integrated on board 10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/60°:80° no 10,4" touch-screen • 5 wires resistive technology • Controller integrated on board 12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° yes 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board 12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board 15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° ves 15" touch-screen • 5 wires resistive technology • Controller integrated on board

WARRANTY

DISPLAY &
TOUCH-SCREEN

12 months on system and its variants

OPTIONS

15,6" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°

WARRANTY

Warranty extension to 18 months on basic system and its variants Warranty extension to 24 months on basic system and its variants Warranty extension to 36 months on basic system and its variants

1: Price does not include Premium HMI Studio 2014 development tool licence that must be purchased one-off at the first order of a license or system that includes the Premium HMI software. See pg.163

Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.162

2: Glass Film Glass (GFG) Touch-Screen option: see pg.167 for differences with standard Touch-Screen configuration.

15,6" touch-screen • 5 wires resistive technology • Controller integrated on board













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Industrial Automation - Products & Configurations

LP30 BASIC

Basic configuration > note 1

Basic configuration

LCD TFT 5,7" • Touch-Screen • Aluminum TrueFlat front panel • ARM Cortex A8, 1 GHz • 1GMB RAM • 256 MB NAND-Flash • 4GB eMMC • fanless • 24V DC power supply with backup for microinterruption function • Windows WEC • SoftPLC CODESYS SP v3,x WinCE/ARM • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • 12 months warranty

SoftPLC

SoftPLC CODESYS SP v3.x for WinCE/ARM runtime

Protocols: EtherCAT Master, MODBUS TCP Master, MODBUS RTU Master

Retentive variables: Automatic backup of retentive variables on eMMC at every system switch-off and/or power supply interruption

HMI SOFTWARE

Premium HMI 4 BASIC WinCE runtime

Premium HMI 4 ADVANCED WinCE runtime

REMOTE ASSISTANCE

ASEM UBIQUITY PRO WinCE runtime

FRONT PANEL

Aluminum front panel • ASEM logo sticker

PROCESSOR

ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board

5,7
5.7
7"
8,6
8,7
10
DISPLAY & 10
TOUCH-SCREEN

	GFG > note 2	¥	
LCD TFT 4:3 • VGA, 640x480, 256K colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/45°:55°			
couch-screen • 4 wires resistive technology • Controller integrated on board			
7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/70°:60°			
7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board			
4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ.): 75°:75°/60°:70°			
no 8,4" touch-screen • 5 wires resistive technology • Controller integrated on board			
10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/60°:80°			
4" touch-screen • 5 wires resistive technology • Controller integrated on board			
1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60°			
' touch-screen • 5 wires resistive technology • Controller integrated on board			
12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70°			
sì 2,1" touch-screen • 5 wires resistive technology • Controller integrated on board			
S" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70°			
15" touch-screen • 5 wires resistive technology • Controller integrated on board			
15,6" LCD TFT 16:9 • 1366x768 (HD), 16M colors • backlight LED, 300 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°	no		
15,6" touch-screen • 5 wires resistive technology • Controller integrated on board			
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WARRANTY

12 months on system and its variants

OPTIONS

WARRANTY EXTENSION

Warranty extension to 18 months on basic system and its variants

Warranty extension to 24 months on basic system and its variants

Warranty extension to 36 months on basic system and its variants

NOTES

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Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.162







LP30 / LP30-TF

Technical Specifications

CODESYS SoftPLC WinCE/ARM for LP30 main features				
PLC programming		IEC61131-3, CODESYS SP v3.x		
Supported protocols		EtherCAT Master, MODBUS TCP Master, MODBUS RTU Master		
Variables backup	Retentive	64Kbyte		
	Persistent	64Kbyte		
	Management	Automatic backup of retentive variables on eMMC at every system switch-off and/or power supply interruption		
Main performances	Cycle time	≥ 10ms		
	Jitter	± 2ms		
	Fieldbus	Only one, no gateway admitted		

For CODESYS SP details, see pg.166

Premium HMI 4 runtimes differences	BASIC	ADVANCED	
I/O Bytes (Tags)	1.024	4.096	
Alarms	512	2.048	
Data Loggers on SQL Database for CE	Max 2	Unlimited	
Multi-Drivers	Max 2	Max 4	
SMS/E-mails		✓	
Web Server		Max 2 clients connected	

For Premium HMI 4 details, see pg.163

ASEM UBIQUITY PRO main features

Control Center software for access and management of services with user friendly interface and complete devices management

User profile with fine control of permissions

Remote desktop, file&task management, chat, screenshot

VPN with access to the Ethernet subnetwork of the remote device and serial passthrough support

Multiple connection from different Control Center by separated VPN for each client

Audit and usage statistics

Internet connection with PROXY

High security standards with usage of unique certificates and encrypted connections

Integrated firewall

Quality measurement of Internet connection with automatic selection of the best connectivity condition

Runtime update procedure with automatic shutdown and restart of the services

Ethernet-MPI gateway for remote assistance on devices with MPI interface

For ASEM UBIQUITY details, see pg.162

ASM (ASEM System Manager). Control Panel utilities

Backup&Restore - Complete system cloning or selective backup and restore of the installed softwares

Screensaver - Display brightness control or display switch off after an inactivity period

Antialiasing - Softens the characters matrix

TECHNICALSPECIFICATIONS				
Case	Panel mount			
Overall dimensions & weight	See details on the related section			
Front Panel	LP30 Aluminum • ASEM logo sticker			
	LP30-TF Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed			
Touchscreen	LP30 4/5 wires resistive technology			
	LP30-TF 4/5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive)			
Frontal protection	IP66, Enclosure type 4X (Indoor use only)			
Operating System	Microsoft Windows Embedded Compact 7 Pro license with Microsoft olographic sticker			
Software	Premium HMI 4 WinCE BASIC / ADVANCED runtime license with ASEM sticker			
Co	ontrol SoftPLC CODESYS SP v3.x for WinCE/ARM runtime • license with 3S sticker			
Remote assist	Remote assistance ASEM UBIQUITY WinCE PRO runtime license with ASEM sticker			
	Jtility ASEM System Manager • Backup&Restore, Screensaver, Antialiasing			
Power supply	Input voltage 18÷36V DC • Power supply section integrated on board			
opi	optional Backup for microinterruption with supercapacitors • Max interruption: 500ms • First load: 6' • Rearm time: 90"			
Motherboard	"All-In-One" type • ASEM R131			
Processor	ARM Cortex A8 • Freescale i.MX535 • 1 GHz, 400 MHz system memory bus • Soldered on board • GPU (Graphic Processor Unit) integrated			
RAM memory	1GB DDR3-800 • Soldered on board			
Mass storage	NAND-Flash 256MB Read-Only • for operating system and runtime			
	eMMC (Solid State Disk) 4GB, 8bit, file system organization • for projects and applications			
SD slot	1 x Slot SD/SDHC v2.0 integrated on board • external access			
Rear access interfaces	LAN1 Ethernet 100 Mbps (RJ45) • LAN2 Ethernet 10/100 Mbps (RJ45) • 2 x USB 2.0 (Type-A / host)			
Rear access serial interface	1 x RS-232/422/485 (DB15M)			
Environmental specification	Operating temperature: 0° ÷ +50°C • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)			
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus (508)			
Standard warranty	12 months • Warranty management by ASEM headquarters			







LP30 / LP30-TF

Technical Specifications

