



MPC21A

The smallest control computer

The MICROSPACE® MPC21A computer system contains the MSB800 board with its interfaces. It boots from CompactFlash, LAN, USB or the optionally integrated 2.5" hard drive.

Besides the functions of the MPC20, the MPC21 (46mm high) has available 4x COM, LPT1, 4x relay output and 4x optically isolated inputs. As an option, COM3/4 can be fitted with a galvanized, isolated RS422/485 interface.

The MiniPCI socket makes it possible to integrate WLAN or field busses. Power is supplied directly with 12/24Volt or with a 110/220V power supply.

Applications

- _ Machine control, Soft SPS
- _ Building automation
- _ Point of sale system
- _ Control computer 4x RS232/RS422/RS485
- _ 4x relays, 4x optical input controller



Ordering information

Item	No.	Description
Upgrade	815060	256 to 512MB memory
	815062	256 to 1GB memory
Option	807460	40GB-hard drive (0°C to +50°C)
	807462	40GB-hard drive, extended temp. (-25°C to +70°C)
	807461	160GB-hard drive (0°C to +50°C)
	812028	Option-WLAN
	815070	Power supply 110/230VAC, 60W
COM3 COM3 COM4 COM4	812041	galvanic isolated RS422*
	812042	galvanic isolated RS485*
	812043	galvanic isolated RS422*
	812044	galvanic isolated RS485*
	812049	RS232C-Adapter**

* Isolation voltage 1600V (60 sec.) or 50VDC

** 2 pcs. incl. per delivery

Technical data

MPC21A

CPU	LX800
ISA-BUS	-
PCI-BUS	MiniPCI-socket
PCI Express-BUS	-
2nd Level cache (kB)	128
Performance (MHz)	500
DRAM Min-Max (MB)	256 (max. 1GB)
CompactFlash socket (type I/II)	yes, CF 256MB installed
Keyboard, mouse (PS/2)	yes
Boot drive	CF, USB, LAN, opt. HD
IDE interface P-ATA	(1x optional)
Digital In	4x opto isolated 5V-24V
Digital Out	4x relay 50V/1A
COM1	RS232C
COM2	RS232C
COM3	RS232C/RS422/RS485
COM4	RS232C/RS422/RS485
LPT1	yes
USB (2.0)	4x (of which 1x internal)
CAN1-V2.0	-
CAN2-V2.0	-
LAN port 1	10/100BASE-T
LAN port 2	10/100BASE-T
Audio	Stereo In/Out
Video controller	LX800
Video memory (MB)	16 (UMA)
LCD interface	-
DVI interface	-
CRT interface	yes
Video input	yes
Watchdog	yes
Power normal	10V-30V/10W
Power suspend	0.1W
Power management	yes
RTC battery onboard	400mAh (>10 years)
Cooling type	passive
Operating temperature (without hard disk)	-25°C to +70°C
Extended operating temperature	-
Size (W x L x H in mm)	165 x 110 x 46
Weight	700 g
MTBF	>200'000h
Special features 1	fan-less
Special features 2	Serial interface
Special features 3	FreeDOS + Linux installed on CF
Part no.	812022

Manufacturer:

DIGITAL-LOGIC
smart embedded computers

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