



MPC21/A/B/C

The PCI/104 expandable computer with additional interfaces

The MICROSPACE® MPC21 computer system contains the MSB800 board and its interfaces. It boots from CompactFlash, LAN, USB or from the optionally integrated 2.5" hard disk. In addition to the MPC20 functions, the MPC21 (46 mm in height) has 2-4x COM, LPT and a PCI/104 slot. The MiniPCI base makes it possible to integrate WLAN or field buses; if both are used, the second MiniPCI base is upgraded with an MSMP104+. Power is supplied directly with 12/24V or with a 110/220V power supply unit.

Applications

- _ Cash register systems (4x RS232) (Point of Sale/POS)
- _ Control systems (PCI/104 A/D-interface)
- _ Bridge to various field bus systems
- _ Measuring instruments (integrated PCI/104 measurement card)

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)
MPC21A/L	807461	160GB-hard drive (0°C to +50°C)
	812028	Option-WLAN
	812029	Power supply 110/230VAC, 60W
	812041	galvanic isolated RS422*
	812042	galvanic isolated RS485*
	812043	galvanic isolated RS422*
	812044	galvanic isolated RS485*
MPC21AL**	812011	MPC21A without digital I/O

For mounting accessories see page 28.

*Isolation voltage 1600V (60 sec.) or 50VDC. Option only for the MPC21A/L.

Technical data	MPC21	MPC21A/AL**	MPC21B	MPC21C
CPU	LX800	LX800	LX800	LX800
ISA-BUS	-	-	-	-
PCI-BUS	1 PCI/104 slot	-	-	1 PCI/104 slot
PCI Express-BUS	-	-	-	-
2nd Level cache (kB)	128	128	128	128
Performance (MHz)	500	500	500	500
DRAM Min-Max (MB)	256 (max. 1GB)	256 (max. 1GB)	256 (max. 1GB)	256 (max. 1GB)
CompactFlash socket (Type I/II)	yes, CF 256MB inst.	yes, CF 256MB inst.	yes, CF 256MB inst.	yes, CF 256MB inst.
Keyboard, mouse (PS/2)	yes	yes	yes	yes
Boot drive	CF, USB, LAN, opt. HD	CF, USB, LAN, opt. HD	CF, USB, LAN, opt. HD	CF, USB, LAN, opt. HD
IDE interface P-ATA	(1x option)	(1x option)	(1x option)	(1x option)
Digital input (only MPC21A)	-	4x opto isol. 5V-24V*	-	-
Digital output (only MPC21A)	-	4x opto isol. 50V/1A*	-	-
COM1	RS232C, 9pol	RS232C, 9pol	RS232C, 9pol	RS232C, 9pol
COM2	-	RS232C, 9pol	RS232C, 9pol	RS232C, 9pol
COM3/CAN1	-	RS232C, 9pol	CAN1, 9pol	-
COM4/CAN2	-	RS232C, 9pol	CAN2, 9pol	-
LPT1	yes	yes	yes	-
USB (2.0)	4x (1x internal)	4x (1x internal)	4x (1x internal)	4x (1x internal)
LAN Port 1	10/100BASE-T	10/100BASE-T	10/100BASE-T	10/100BASE-T
LAN Port 2	10/100BASE-T	10/100BASE-T	10/100BASE-T	10/100BASE-T
Audio	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out
Video controller	LX800	LX800	LX800	LX800
Video memory (MB)	16 (UMA)	16 (UMA)	16 (UMA)	16 (UMA)
LCD interface	-	-	-	-
DVI interface	-	-	-	-
CRT interface	yes	yes	yes	yes
Video input	yes	yes	yes	yes
Watchdog	yes	yes	yes	yes
Power normal	10V-30V/10W	10V-30V/10W	10V-30V/10W	10V-30V/10W
Power suspend	0.1W	0.1W	0.1W	0.1W
Power management	yes	yes	yes	yes
RTC battery onboard	400mAh (>10 years)	400mAh (>10 years)	400mAh (>10 years)	400mAh (>10 years)
Cooling type	passive	passive	passive	passive
Operating temperature (without hard disk)	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Extended operating temperature	-	-	-	-
Size (W x L x H in mm)	165 x 110 x 46	165 x 110 x 46	165 x 110 x 46	165 x 110 x 46
Weight	700 g	700 g	700 g	700 g
MTBF	100'000h (without HD)	100'000h (without HD)	100'000h (without HD)	100'000h (without HD)
Special features 1	MiniPCI-socket	MiniPCI-socket	MiniPCI-socket	MiniPCI-socket
Special features 2	PCI/104-slot	-	-	PCI/104-slot
Special features 3	FreeDOS + Linux inst.	FreeDOS + Linux inst.	FreeDOS + Linux inst.	FreeDOS + Linux inst.
Part no.	812021****	812022****	812023****	812024****

**MPC21AL is a variation of the MPC21A without digital I/Os. Minimum order quantity: 100 pcs. (Part no. 812011)

***Including DC power cable (Part no. 812036).

**** Including DC power cable (Part no. 812035).

Manufacturer:

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