

PC/104 (+) Peripherals Accessory



Peripheral PC/104(+) cards can reside on either side of the CPU. All functions of the embedded computers are featured on PC/104 form factor modules. Such a module-stack takes up little space and can be bolted directly inside the application. A system composed of PC/104 or PC/104-Plus modules is often referred to as a "stack". There is no strict limit to the number of PC/104 cards that can coexist in one system, as more modules are added and the stack height increases, signalling requirements may not be maintained. A PC/104 stack will usually have a motherboard controller that is also PC/104.



Type	MSMC104+	MSMCA104+	MSMCA104+ISOL	MSME104+	MSMG104+	MSMGE104+
Features						
Function	CAN	CAN	CAN	Ethernet LAN	Video Framegrabber	1 Gigabit-LAN
ISA Bus	n/a	n/a	n/a	n/a	n/a	n/a
PCI Bus	yes	yes	yes	yes	yes	yes
PCI Express Bus	n/a	n/a	n/a	n/a	n/a	n/a
BUS Compatibility	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus
Controller	VECTOR	Peak-CAN	Peak-CAN	i82551	BT878A	i82541
Memory	n/a	n/a	n/a	32KB	n/a	32KB
1. Interface	1. channel	CAN 9p DSUB	CAN 9p DSUB	RJ-45	1. Channel CVBS	RJ-45
2. Interface	2. channel	CAN 9p DSUB	CAN 9p DSUB	n/a	2. Channel CVBS	n/a
3. Interface		n/a	n/a	n/a	3. Channel CVBS/S-Video	n/a
Power Normal	3.3V/5V	3.3V/5V	3.3V/5V	3.3V	5V	3.3V
Power Management	n/a	n/a	n/a	n/a	n/a	n/a
Operating Temp. Range	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. Range	tbd	tbd	tbd	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
Size (mm)	90x96x17	90x96x17	90x96x17	90x96x17	90x96x17	90x96x17
Weight	106g	80g	80g	80g	120g	100g
Softwaresupport	WIN	WIN, Linux	WIN, Linux	WIN, CE, Linux	WIN, CE, Linux	WIN, Linux
MTBF	100.000h	200.000h	200.000h	100.000h	100.000h	100.000h
Special features	2x CAN piggy necessary		500V isolated	100/10MBit/sek.	Digital I/O	
Orderung Number	PPPC3001	PPPC3006	PPPC3005	PPPE1008	PPPF3002	PPPI6083



Type	MSMI104+	MSMJ104+	MSMP104+	MSMSF104+	MSMVB104+	MSMW104+
Features						
Function	ISDN	Dual PCMCIA	Mini PCI Adapter	StarFabric	Video Controller	Firewire
ISA Bus	n/a	n/a	n/a	n/a	n/a	n/a
PCI Bus	yes	yes	yes	yes	yes	yes
PCI Express Bus	n/a	n/a	n/a	n/a	n/a	n/a
BUS Compatibility	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus	PC/104-Plus
Controller	Cologne	TI520	n/a	SF2010	Ati-M1	TSB43AB22
Memory	n/a	n/a	n/a	n/a	8MB	n/a
1. Interface	RJ-45	1. Slot PCCard	Mini PCI Typ 3	4x RJ-45	CRT max. 1.600 x 1.200	IEEE 1394
2. Interface	n/a	2. Slot PCCard	n/a	n/a	DVI max. 1.280 x 1.024	IEEE 1394
3. Interface	n/a	n/a	n/a	n/a	LVDS max. 1.280 x 1.024	n/a
Power Normal	3.3V	3.3V / 5V	5V	3.3V / 5V	5V, 3.3V, 3W	3.3V
Power Management	n/a	n/a	n/a	n/a	n/a	n/a
Operating Temp. Range	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. Range	tbd	-40°C - +85°C	-40°C - +85°C	-40°C - +70°C	tbd	-40°C - +70°C
Size	90x96x17	90x96x17	90x96x17	90x96x17	90x96x17	90x96x17
Weight	80g	120g	80g	120g	80g	80g
Softwaresupport	WIN2K, XP	WIN, CE, Linux	n/a	WIN XP	WIN2K, XP, Linux, QNX, VxWorks	WIN, Linux
MTBF	100.000h	100.000h	200.000	200.000	100.000	200.000
Special features				Master mode, Slave mode	Reprogrammable BIOS	
Orderung Number	PPPI6070	PPPP1009	PPPI6082	PPPI6081	PPPV1052	PPPI5100

PC/104 (+) Peripherals Accessory



Peripheral PC/104(+) cards can reside on either side of the CPU. All functions of the embedded computers are featured on PC/104 form factor modules. Such a module-stack takes up little space and can be bolted directly inside the application. A system composed of PC/104 or PC/104-Plus modules is often referred to as a "stack". There is no strict limit to the number of PC/104 cards that can coexist in one system, as more modules are added and the stack height increases, signalling requirements may not be maintained. A PC/104 stack will usually have a motherboard controller that is also PC/104.



Type	MSMX104+	MSME104B	MSME104R	MSMF104	MSMF104-S
Features					
Function	8x Serial	10MB-LAN	10MB-LAN	Flashdisk	SRAM-Disk
ISA Bus	n/a	yes	yes	yes	yes
PCI Bus	yes	n/a	n/a	n/a	n/a
PCI Express Bus	PC/104-Plus	n/a	n/a	n/a	n/a
BUS Compatibility	PCI	PC/104	PC/104	PC/104	
Controller	EXAR	SMC91C96	SMC91C96	n/a	n/a
Memory	n/a	n/a	n/a	2x DOC2000	
1. Interface	8x 10pin header	10Base-2 (coax) back side	10Base-2 (coax) right side	n/a	
2. Interface	RS-232C (4x)	10 Base-T (RJ-45) back side	10 Base-T (RJ-45) right side	n/a	
3. Interface	RS-485 (4x)	n/a	n/a	n/a	
Power Normal	3.3V	5V / 0,5A	5V / 0,5A	5V / 0,1A	5V/100mA (typ.)
Power Management	n/a	n/a	n/a	n/a	
Operating Temp. Range	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. Range	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
Size (mm)	90x96x17	90x96x17	90x96x17	90x96x17	
Weight	80g	80g	80g	80g	80 gr.
Softwaresupport	WIN, Linux	DOS, Linux, WIN	DOS, Linux, WIN	DOS, WIN	
MTBF	200.000	100.000	100.000	100.000	> 100.000h
Special features					
Orderung Number	PPPI6080	PPPE1006	PPPE1007	PPSF3020	PPSF3021



Type	MSMPSP104 / MSMPSP104UPS	MSMBAT104	MSMX104	MSMCAN	MSMVA104+
Features					
Function	Power Supply	Battery UPS	4x Serial	CAN Controller	XVGA PC/104-Plus
ISA Bus	n/a		yes	yes	n/a
PCI Bus	n/a		n/a	n/a	yes
PCI Express Bus	n/a		n/a		PCI
BUS Compatibility	n/a	12C	PC/104		64kB BIOS
Controller	n/a	SBS Gas Gauge	4x 16C550	i82C527	n/a
Memory	n/a		n/a		
1. Interface	Supply input 8V-15VDC		4x COM RS-232		
2. Interface	n/a		n/a		
3. Interface	n/a		n/a		
Power Normal	n/a	up to 720mAh	5V / 0,3A	5V/250mA (typ.)	3,3V
Power Management	n/a		n/a		
Operating Temp. Range	-25°C - +60°C	-10°C - +50°C discharging	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. Range	n/a	0°C - +50°C charging	-40°C - +85°C	-40°C - +85°C	n/a
Size	90x96x17		90x96x17		
Weight	120g	120g	80g	50 gr.	80 gr.
Softwaresupport	n/a		DOS, WIN, Linux		
MTBF	100.000	1000 cycles	100.000	> 100.000h	> 100.000h
Special features	Output1: 5V / 15A Output2: 12V / 2A				
Orderung Number	NDSX3300 / 3310	PPOA1010	PPPI4003	PPPC1000	PPPV1051

PC/104(+) Peripherals

28

PC/104 (+) Peripherals Accessory

Peripheral PC/104(+) cards can reside on either side of the CPU. All functions of the embedded computers are featured on PC/104 form factor modules. Such a module-stack takes up little space and can be bolted directly inside the application. A system composed of PC/104 or PC/104-Plus modules is often referred to as a "stack". There is no strict limit to the number of PC/104 cards that can coexist in one system, as more modules are added and the stack height increases, signalling requirements may not be maintained. A PC/104 stack will usually have a motherboard controller that is also PC/104.



Coming soon

Coming soon

Type	MSMGE104EX	MSMPI104EX	MSMS104EX
Features			
Function	1GB LAN	ISA-Bridge	SCSI
ISA Bus	n/a	yes	n/a
PCI Bus	n/a	yes	n/a
PCI Express Bus	yes	n/a	yes
BUS Compatibility	PCI/104-Express	PCI/104-Express	PCI/104-Express
Controller	PC82573L	IT8888	Adapter
Memory	n/a	n/a	n/a
1. Interface	1GB-LAN	n/a	SCSI
2. Interface	2x USB	n/a	n/a
3. Interface	2x SATA	n/a	n/a
Power Normal	3,3V / 1A	3,3V / 5V	3,3V / 5V
Power Management	n/a	n/a	n/a
Operating Temp. Range	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. Range	n/a	n/a	n/a
Size (mm)	90x96x17	90x96x17	90x96x17
Weight	120g	100g	100g
Softwaresupport	WIN XP, Linux	WIN, Linux	WIN, Linux
MTBF	100.000	100.000	100.000
Special features			
Orderung Number	tbd	tbd	tbd



Non RoHS

Non RoHS

Non RoHS

Type	MSMVGA	MSMJ104D	MSMS104+
Features			
Function	Video/LCD	PCCard	SCSI PC/104-Plus
Controller	C&T 65545	VADEM 469	AIC-7860
Connector	CRT, LCD	2x type II, 1x type III	SCSI
Bus	ISA	ISA	PCI
Onboard Flash	32kB BIOS	32kB BIOS	32kB BIOS
Remarks	n/a	n/a	n/a
Power Normal	5V/260mA (typ.)	5V/180mA (typ.)	3,3/5V
Power Susoend	5V/260mA (typ.)	5V/180mA (typ.)	3,3/5V
Operating Temp. Range	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Extended Temp. (Option)	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
Weight	80 gr.	150 gr.	80 gr.
MTBF	> 100.000h	> 100.000h	> 100.000h
Orderung Number	PPP1003	PPPP1008	PPPI3001