

Guia de Instalação IPMH510E

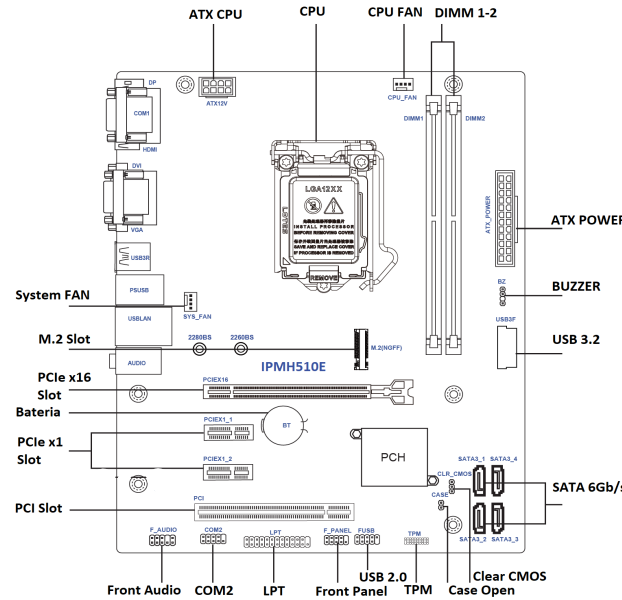
Especificações

- CPU**
- Soquete LGA1200 para processadores Intel® 10ª/11ª Geração
 - Suporte para processadores até 125W
-
- Chipset**
- Intel® H510 Chipset
-
- Memória**
- Arquitetura Dual-channel DDR4
 - 2 x 288-pin DDR4 LONG DIMM suporte até 64 GB
 - Suporte DDR4 3200/2933/2666 MHz DDR4 SDRAM
-
- Expansão**
- 1 x PCI Express x16 Gen4 slot
 - 2 x PCI Express x1 Gen3 slots
 - 1 x PCI slot
 - 1 x M.2 slot para 2260/2280 SSD card (PCIEx4Gen3 / SATA(3.1))
-
- Storage**
- Suporte pela Intel® H510 Express
 - Chipset 4 x Serial ATA 6Gb/s
-
- Audio**
- 6-CH High Definition audio
 - Compatível com especificações do HD audio
-
- Rede**
- 1 Gigabit Fast Ethernet Controller
-
- I/O**
- 1 x PS/2 mouse & PS/2 keyboard
 - 1 x Serial porta (COM1 port)
 - 1 x HDMI porta
 - 1 x D-sub porta (VGA porta)
 - 1 x DVI-D porta
 - 1 x DP porta
 - 2 x USB 3.2 Gen1 porta
 - 1 x RJ45 LAN conector
 - 4 x USB 2.0 portas
 - 1 x Audio 6-ch jacks (line-in, line-out, microfone)
-
- Conectores Internos**
- 1 x Conector 24-pin ATX Power
 - 1 x Conector 8-pin ATX 12V Power
 - 1 x Conector 4-pin CPU_FAN
 - 1 x Conector 4-pin SYS_FAN
 - 1 x Conector USB 3.2 Gen1 com suporte até 2 portas USB 3.2 Gen1
 - 1 x Conector USB 2.0 com suporte até 4 portas USB 2.0
 - 4 x Conector SATA 6Gb/s
 - 1 x Conector Front Panel audio
 - 1 x Conector Front Panel switch/LED
 - 1 x Conector Onboard porta paralela (LPT)
 - 1 x Conector COM (COM2)
 - 1 x Clear CMOS jumper
 - 1 x Conector Trusted platform module header (TPM)
 - 1 x Conector Buzzer
 - 1 x Conector Case open
-
- BIOS**
- AMI BIOS com 128Mb SPI Flash ROM
 - Suporte Plug and Play, STR (S3)/ STD (S4), Hardware Monitor
 - Audio, LAN, podendo ser desabilitado via BIOS
 - F7 hot key para boot up
 - Suporte ACPI & DMI
 - Suporte PgUp clear CMOS Hotkey (PS2 KB Model apenas)
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- Form Factor**
- Micro ATX Size, 244mm x 200mm

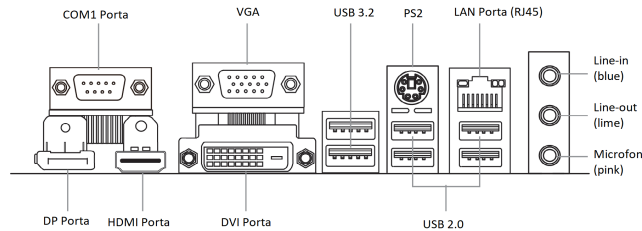


Produzido por CNPJ: 84.489.988/0005-18

Layout Motherboard

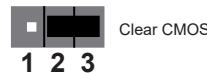


IO Portas

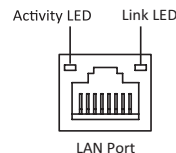


Jumper

Clear CMOS

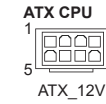


LAN LED indicadores



LAN LED	Status	Descrição
Ativo LED	Desligado	No data
	Laranja piscando	Ativo
Link LED	Desligado	Sem link
	Verde	Link

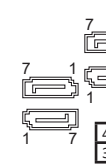
Definições de Pino



Pin	Definição
1	GND
2	GND
3	GND
4	GND
5	+12V
6	+12V
7	+12V
8	+12V

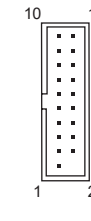


Pin	Definição
1	GND
2	+12V
3	Sensor
4	PWM



Pin	Definição
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

USB 3.1 Gen1



Pin	Definição	Pin	Definição
1	VBUS	11	D2+
2	SSRX1-	12	D2-
3	SSRX1+	13	GND
4	GND	14	SSTX2+
5	SSTX1-	15	SSTX2-
6	SSTX1+	16	GND
7	GND	17	SSRX2+
8	D1-	18	SSRX2-
9	D1+	19	VBUS
10	NC	20	No Pin

USB 2.0



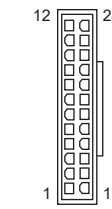
Pin	Definição	Pin	Definição
1	Power +5V	6	USB Port B (+)
2	Power +5V	7	GND
3	USB Port A (-)	8	GND
4	USB Port B (-)	9	No Pin
5	USB Port A (+)	10	NC

LPT



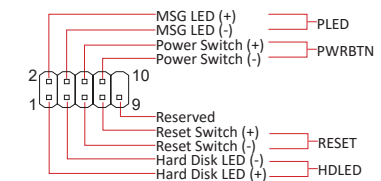
Pin	Definição	Pin	Definição
1	STROBE	14	GND
2	AFD	15	PD6
3	PD0	16	GND
4	ERROR	17	PD7
5	PD1	18	GND
6	INIT	19	ACK
7	PD2	20	GND
8	SLCT	21	BUSY
9	PD3	22	GND
10	GND	23	PE
11	PD4	24	GND
12	GND	25	SLCT
13	PD5	26	No Pin

ATX Power



Pin	Definição	Pin	Definição
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	Power Good	20	-5V
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND

Front Panel



TPM



Pin	Definição	Pin	Definição
1	No Pin	11	NC
2	NC	12	MOSI
3	NC	13	SPI_CS#
4	NC	14	GND
5	GND	15	WP
6	3VSB	16	NC
7	SPI_CLK	17	PIRQ#
8	SPI_IO2	18	3VSB
9	SPI_IO3	19	SPI_RST#
10	MISO	20	3VSB

COM2



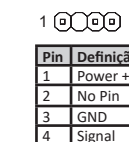
Pin	Definição	Pin	Definição
1	DCDB	6	DSRB
2	SINB	7	RTSB
3	SOUTB	8	CTSB
4	DTRB	9	RI
5	GND	10	No Pin

Front Audio



Pin	Definição	Pin	Definição
1	PORT 1L	6	Sense1 Ret
2	AUD_GND	7	Sense_Send
3	PORT 1R	8	No Pin
4	PRESENCE#	9	PORT 2L
5	PORT 2R	10	Sense2 Ret

Buzzer



Pin	Definição
1	Power +5V
2	No Pin
3	GND
4	Signal

Case Open



1 2
Chassis cover é removido

1 2
Chassis cover fechado