

MT7530B/MT7530W Approval Datasheet

7-port Gigabit Ethernet Switch

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1 General Description

1.1 Overview

MT7530B/MT7530W is a highly integrated Ethernet switch with high performance and non-blocking transmission. It includes a 7-port Gigabit Ethernet MAC and a 5-port Gigabit Ethernet PHY for several applications, such as xDSL, xPON, WiFi AP, and cable modem. MT7530B/MT7530W enables an advanced power-saving feature to meet the market requirement. It complies with IEEE803.3az for Energy Efficient Ethernet and cable-length/link-down power saving mode. MT7530B/MT7530W is also designed for cost-sensitive applications in retail and Telecom market. MediaTek's industry-leading techniques provide customers with the most cost-competitive and lowest power consumption Ethernet product in the industry.

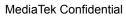
1.1.1 Features

- 5-port 10/100/1000Mbps MDI transceivers, 1-port RGMII/GMII/TMII/MII MAC, and 1-port RGMII/TRGMII MAC
- One RGMII port supports PHY mode for router application
- Supports 2Gbps TRGMII mode
- Accessible MAC address table with 2048 entries and auto aging and learning capabilities
- Programmable aging timer for MAC address table
- Supports programmable 1518/1536/1552 and 9K Jumbo frame length
- Supports 20/25/40MHz clock source
- Supports SVL and IVL with 8 filtering database
- Supports RSTP and MSTP
- Supports 802.1X
- Supports 4K VLAN entries
- Supports VLAN ID tag and un-tag options for each port
- Supports double tagging VLAN
- Supports hardware port isolation
- Supports 8 priority queues per port
- Supports SP, WFQ, and SP+WFQ latency scheduler
- Supports Max-Min bandwidth scheduler
- Supports ingress and egress rate control
- Supports 64 sets of ACL rules
- Supports IGMPv1/v2/v3 and MLDv1/v2 snooping
- Supports IPv4 and IPv6 multicast frames hardware forwarding
- Supports 40 MIB counters per port
- Supports IEEE 1588v2
- Supports Loop detection indicator
- Supports Broadcast/Multicast/Unknown frames storm suppression
- 10Base-T, 10Base-Te, 100Base-TX, and 1000Base-T compliant Transceivers
- Compliant with IEEE 802.3 Auto-Negotiation

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- Supports 3 LEDs per GEPHY port
- Supports short-cable power saving
- Integrated MDI resistors
- Supports IEEE 802.3az Energy Efficient Ethernet
- 128-pin E-PAD, QFP, 14mm x 14mm





2 Block Diagram

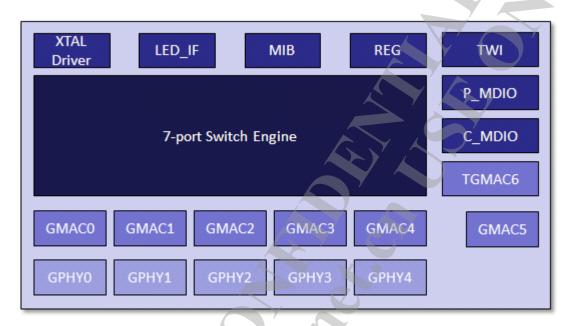


Figure 2-1. MT7530B/MT7530W Block Diagram



3 Pin Assignment

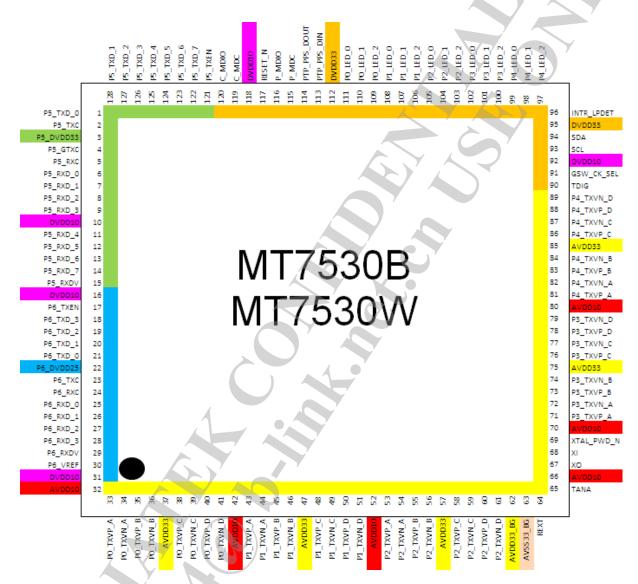


Figure 3-1. MT7530B/MT7530W Pin Diagram



Table 3-1. MT7530B/MT7530W Pin Assignment

Pin#	Pin Name	Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name
1	P5_TXD_0	33	P0_TXVP_A	65	TANA	97	P4_LED_2
2	P5_TXC	34	P0_TXVN_A	66	AVDD10	98	P4_LED_1
3	P5_DVDD33	35	P0_TXVP_B	67	хо	99	P4_LED_0
4	P5_GTXC	36	PO_TXVN_B	68	XI	100	P3_LED_2
5	P5_RXC	37	AVDD33	69	XTAL_PWD_N	101	P3_LED_1
6	P5_RXD_0	38	P0_TXVP_C	70	AVDD10	102	P3_LED_0
7	P5_RXD_1	39	P0_TXVN_C	71	P3_TXVP_A	103	P2_LED_2
8	P5_RXD_2	40	P0_TXVP_D	72	P3_TXVN_A	104	P2_LED_1
9	P5_RXD_3	41	P0_TXVN_D	73	P3_TXVP_B	105	P2_LED_0
10	DVDD10	42	AVDD10	74	P3_TXVN_B	106	P1_LED_2
11	P5_RXD_4	43	P1_TXVP_A	75	AVDD33	107	P1_LED_1
12	P5_RXD_5	44	P1_TXVN_A	76	P3_TXVP_C	108	P1_LED_0
13	P5_RXD_6	45	P1_TXVP_B	77	P3_TXVN_C	109	P0_LED_2
14	P5_RXD_7	46	P1_TXVN_B	78	P3_TXVP_D	110	P0_LED_1
15	P5_RXDV	47	AVDD33	79	P3_TXVN_D	111	P0_LED_0
16	DVDD10	48	P1_TXVP_C	80	AVDD10	112	DVDD33
17	P6_TXEN	49	P1_TXVN_C	81	P4_TXVP_A	113	PTP_PPS_DIN
18	P6_TXD_3	50	P1_TXVP_D	82	P4_TXVN_A	114	PTP_PPS_DOUT
19	P6_TXD_2	51	P1_TXVN_D	83	P4_TXVP_B	115	P_MDC
20	P6_TXD_1	52	AVDD10	84	P4_TXVN_B	116	P_MDIO
21	P6_TXD_0	53	P2_TXVP_A	85	AVDD33	117	RESET_N
22	P6_DVDD25	54	P2_TXVN_A	86	P4_TXVP_C	118	DVDD10
23	P6_TXC	55	P2_TXVP_B	87	P4_TXVN_C	119	C_MDC
24	P6_RXC	56	P2_TXVN_B	88	P4_TXVP_D	120	C_MDIO
25	P6_RXD_0	57	AVDD33	89	P4_TXVN_D	121	P5_TXEN
26	P6_RXD_1	58	P2_TXVP_C	90	TDIG	122	P5_TXD_7
27	P6_RXD_2	59	P2_TXVN_C	91	GSW_CK_SEL	123	P5_TXD_6
28	P6_RXD_3	60	P2_TXVP_D	92	DVDD10	124	P5_TXD_5
29	P6_RXDV	61	P2_TXVN_D	93	SCL	125	P5_TXD_4
30	P6_VREF	62	AVDD33_BG	94	SDA	126	P5_TXD_3
31	DVDD10	63	AVSS33_BG	95	DVDD33	127	P5_TXD_2
32	AVDD10	64	REXT	96	INTR_LPDET	128	P5_TXD_1



4 Pin Description

The following notations are used in Type column of Pin description tables:

- I Digital input pin
- O Digital output pin
- I/O Digital bidirectional pin
- A Analog pin
- P Power or ground pin

4.1 System Pins

Table 4-1. System Clock and Reset Pins

Pin Name	Туре	Pin Number	Description
RESET_N	I	117	Active low hardware reset.
XO	Α	68	Crystal clock inputs which can support 20MHz and
XI		67	25MHz crystal driver and 20MHz, 25MHz, and 40MHz
			external clock.
XTAL_PWD_N	Α	69	Crystal driver power down.
			Put a pull-down resister if external clock source, not
			crystal driver, is used in XO pin.

Table 4-2. System Hardware Trap Pins

Pin Name	Туре	Pin Number	Description
P4_LED_0	I/O	99	Crystal clock frequency selection
P3_LED_0		102	{P4_LED_0, P3_LED_0} signals are used to control the
			crystal clock input frequency to XO and XI.
	7		00: Reserved.
			01: 20MHz
	Y		10: 40MHz
			11: 25MHz (default)
P3_LED_2	I/O	100	SMI Address selection
P3_LED_1		101	{P3_LED_2, P3_LED_1} signals are used to define
			decoded Serial Management Interface(SMI) addresses
			of C_MDC/C_MDIO for command registers access
			00 : Use 7 to 12 SMI addresses
			01 : Use 15 to 20 SMI addresses
Y			10 : Use 23 to 28 SMI addresses
			11 : Use 31 and 0 to 4 SMI addresses (default)
P1_LED_1	I/O	107	SMI Access control
			0: PHY access mode 0
			1: PHY access mode 1 (default)
P1_LED_2	I/O	106	P5 Interface Disable



Pin Name	Type	Pin Number	Description
			0: Enable P5 IO
			1: Disable P5 IO (default)
P2_LED_1	I/O	104	P5 Interface Mode
			0: GMII or MII mode
			1: RGMII mode (default)
P4_LED_1	I/O	98	P5 Interface Selection
			0: P5 IO is connected to GPHY4
			1: P5 IO is connected to GMAC5 (default)
P2_LED_2	I/O	103	P6 Interface Disable
			0: Enable P6 IO
			1: Disable P6 IO (default)
P0_LED_2	I/O	109	EEPROM Auto Initialization
			0: Disable EEPROM auto initialization
			1: Enable EEPROM auto initialization (default)
P4_LED_2	I/O	97	Loop Detection Alarm
		Ä	0: Enable loop detection
			1: Disable loop detection (default)

4.2 Digital Signal Pins

Table 4-3. P5 RGMII/GMII Pins

Pin Name	Type	Pin Number	Description
P5_TXC	I/O	2	P5 Transmit Clock in MII and GMII mode. P5_TXC
			provides the timing reference for the transfer of the
			P5_TXEN and P5_TXD_[3:0] during 10/100 mode.
P5_GTXC	0	4	P5 1000M mode clock in RGMII and GMII. P5_GTXC
			provides the timing reference for the transfer of the
			P5_TXEN and P5_TXD_[7:0] during 1000M mode
P5_TXEN	0	121	P5 Transmit Enable
P5_TXD_0	0	1	P5 Transmit Data
P5_TXD_1	, Y	128	All 8 bits are used in GMII mode, and only the first 4 bits
P5_TXD_2		127	are used in MII and RGMII mode.
P5_TXD_3		126	
P5_TXD_4		125	
P5_TXD_5		124	
P5_TXD_6		123	
P5_TXD_7		122	
P5_RXC	Ī	5	P5 Receive clock in RGMII and GMII mode. P5_RXC
			provides the timing reference for the transfer of the
			P5_RXDV and P5_RXD_[7:0]
P5_RXDV	I	15	P5 Receive Data Valid
P5_RXD_0	I	6	P5 Receive Data
P5_RXD_1		7	All 8 bits are used in GMII mode, and only the first 4 bits



Pin Name	Туре	Pin Number	Description
P5_RXD_2		8	are used in MII and RGMII mode.
P5_RXD_3		9	
P5_RXD_4		11	
P5_RXD_5		12	
P5_RXD_6		13	
P5_RXD_7		14	

Table 4-4. P6 RGMII/TRGMII Pins

Pin Name	Туре	Pin Number	Description
P6_TXC	0	23	P6 Transmit Clock
P6_TXEN	0	17	P6 Transmit Enable
P6_TXD_0	0	21	P6 Transmit Data
P6_TXD_1		20	
P6_TXD_2		19	
P6_TXD_3		18	
P6_RXC	l	24	P6 Receive Clock
P6_RXDV	I	29	P6 Receive Data Valid
P6_RXD_0		25	P6 Receive Data
P6_RXD_1		26	
P6_RXD_2		27	4 9
P6_RXD_3		28	
P6_VREF	I	30	P6 IO reference voltage.
		1 30	The pin is connected to the voltage source which is
			equal to 0.5*P6_DVDD25

Table 4-5. P0 to P5 PHY LED Pins

Pin Name	Туре	Pin Number	Description
P0_LED_0	1/0	111	P0 PHY LED indicators
P0_LED_1		110	
P0_LED_2	,	109	
P1_LED_0	I/O	108	P1 PHY LED indicators
P1_LED_1		107	
P1_LED_2		106	
P2_LED_0	1/0	105	P2 PHY LED indicators
P2_LED_1		104	
P2_LED_2	Y	103	
P3_LED_0	I/O	102	P3 PHY LED indicators
P3_LED_1		101	
P3_LED_2		100	
P4_LED_0	I/O	99	P4 PHY LED indicators
P4_LED_1		98	
P4_LED_2		97	

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Table 4-6. Digital Control Pins

Pin Name	Туре	Pin Number	Description
TDIG	I/O	90	Digital test pin
			Connect this pin to DVDD33 in normal mode operation
GSW_CK_SEL		91	Switch clock frequency selection
SCL	I	93	Serial Clock for EEPROM
SDA	I/O	94	Serial Data for EEPROM
INTR_LDDET	0	96	Interrupt and Loop detection
PTP_PPS_DIN		113	1588 1PPS input
PTP_PPS_DOUT	0	114	1588 1PPS output
P_MDC	0	115	Management data clock for external transceivers
P_MDIO	I/O	116	Management data input/output for external transceivers
C_MDC	I	119	Management data clock for CPU control
C_MDIO	I/O	120	Management data input/output for CPU control

4.3 Analog Signal Pins

Table 4-7. Analog Signal Pins

Pin Name	Туре	Pin Number	Description
P0_TXVP_A	Α	33	Port 0 MDI Transceivers
P0_TXVN_A		34	
P0_TXVP_B		35	
P0_TXVN_B		36	
P0_TXVP_C		38	
P0_TXVN_C		39	Y
P0_TXVP_D		40	
P0_TXVN_D		41	
P1_TXVP_A	A	43	Port 1 MDI Transceivers
P1_TXVN_A	7	44	
P1_TXVP_B		45	
P1_TXVN_B	Y 1	46	
P1_TXVP_C		48	
P1_TXVN_C		49	
P1_TXVP_D		50	
P1_TXVN_D		51	
P2_TXVP_A	Α	53	Port 2 MDI Transceivers
P2_TXVN_A		54	
P2_TXVP_B	7	55	
P2_TXVN_B		56	
P2_TXVP_C		58	
P2_TXVN_C		59	
P2_TXVP_D		60	
P2_TXVN_D		61	
P3_TXVP_A	Α	71	Port 3 MDI Transceivers



Pin Name	Туре	Pin Number	Description
P3_TXVN_A		72	
P3_TXVP_B		73	
P3_TXVN_B		74	
P3_TXVP_C		76	
P3_TXVN_C		77	
P3_TXVP_D		78	
P3_TXVN_D		79	
P4_TXVP_A	Α	81	Port 4 MDI Transceivers
P4_TXVN_A		82	
P4_TXVP_B		83	
P4_TXVN_B		84	
P4_TXVP_C		86	
P4_TXVN_C		87	
P4_TXVP_D		88	
P4_TXVN_D		89	
REXT	Α	64	Band gap resistor which is connected to AVSS33_BG
			through a 24kΩ (±1%) resistor
TANA	Α	65	Analog test pin

4.4 Power Pins

Table 4-8. Analog and Digital Power Pins

Pin Name	Туре	Pin Number	Description
AVDD33	Р /	37,47,57,75,85	3.3V Analog IO power
AVDD10	Р	32,42,52,66,70,80	1.0V Analog core power
AVDD33_BG	Р	62	3.3V Analog power for Bandgap
AVSS_BG	Р	63	Analog ground for Bandgap
DVDD33	Р	95,112	3.3V digital IO power
P5_DVDD33	Р	3	3.3V/2.5V port-5 IO power
P6_DVDD25	P	22	2.5V/1.8V/1.5V port-6 IO power
DVDD10	Р	10,16,31,92,118	1.0V digital core power



5 Electrical Specifications

5.1 Absolute Maximum Ratings

Parameter	Symbol	Min.	Тур.	Max.	Unit
Junction Temperature	Tj			125	°C
Supply voltage of 3.3V IO power		/		3.6	\/
(AVDD33, AVDD33_BG, P5_DVDD33)		4		3.0	V
Supply voltage of 2.5V IO power		<i>\(\)</i>	7 1	2.75	V
(P6_DVDD25)				2.10	V
Supply voltage of 1.0V Core power				1.15	V
(AVDD10, DVDD10)				1.10	V

5.2 Recommended Operating Conditions

Symbol	Min.	Тур.	Max.	Unit
AVDD33	3.14	3.3	3.46	V
AVDD10	0.95	1.0	1.10	V
DVDD33	3 14	3.3	3 46	V
3.330	3.11	0.0	0.10	•
DVDD25	2.38	2.5	2 62	V
, BVBB20	2.00	2.0	2.02	v
DVDD18	1 71	1.8	1 90	V
BVBBIO	1.7 1	1.0	1.00	V
DVDD15	1 43	1.5	1.60	V
BVBB13	1.40	1.5	1.00	V
DVDD10	0.95	1.0	1.10	V
Та	0		70	°C
	AVDD33 AVDD10 DVDD33 DVDD25 DVDD18 DVDD15 DVDD10	AVDD33 3.14 AVDD10 0.95 DVDD33 3.14 DVDD25 2.38 DVDD18 1.71 DVDD15 1.43 DVDD10 0.95	AVDD33 3.14 3.3 AVDD10 0.95 1.0 DVDD33 3.14 3.3 DVDD25 2.38 2.5 DVDD18 1.71 1.8 DVDD15 1.43 1.5 DVDD10 0.95 1.0	AVDD33 3.14 3.3 3.46 AVDD10 0.95 1.0 1.10 DVDD33 3.14 3.3 3.46 DVDD25 2.38 2.5 2.62 DVDD18 1.71 1.8 1.90 DVDD15 1.43 1.5 1.60 DVDD10 0.95 1.0 1.10

5.3 Thermal Characteristics

5.3.1 JEDEC 2-Layer System PCB*1

Parameter	Symbol	Min.	Тур.	Max.	Unit
Junction to Ambient thermal resistance	θ_{JA}		22.09		°C/W
Junction to Case thermal resistance	θ_{JC}		11.58		°C/W
Junction to Top center of package thermal characterization	Ψ_{JT}		3.2		°C/W

Note *1: JEDEC 51-7 system FR4 PCB size: 3"x4.5"



5.3.2 JEDEC 4-Layer System PCB

Parameter	Symbol	Min.	Тур.	Max.	Unit
Junction to Ambient thermal resistance	θ_{JA}		19.31		°C/W
Junction to Case thermal resistance	θ_{JC}		9.64		°C/W
Junction to Top center of package	$\Psi_{ m JT}$		1.98	y (°C/W
thermal characterization					

5.4 DC Characteristics

5.4.1 P5 IO (3.3V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Input logic low voltage	V _{IH}	1.7			V
Input logic high voltage	V _{IL}		67	0.9	V
DC Output logic low voltage	V _{OH} (DC)	2.1	9		V
DC Output logic high voltage	V _{OL} (DC)			0.5	V

5.4.2 P5 IO (2.5V), P6 IO (2.5V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Input logic low voltage	V _{IH}	1.7			V
Input logic high voltage	V _{IL}	r'		0.7	V
DC Output logic low voltage	V _{OH} (DC)	2.0			V
DC Output logic high voltage	V _{OL} (DC)			0.4	V

5.4.3 P6 IO (1.8V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reference Voltage	/		0.9		V
Input logic low voltage	V _{IH}	1.025			V
Input logic high voltage	V _{IL}			0.775	V
DC Output logic low voltage	V _{OH} (DC)	1.42			V
DC Output logic high voltage	V _{OL} (DC)			0.28	V

5.4.4 P6 IO (1.5V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reference Voltage			0.75		V
Input logic low voltage	V _{IH}	0.85			V
Input logic high voltage	V _{IL}			0.65	V
DC Output logic low voltage	V _{OH} (DC)	1.2			V
DC Output logic high voltage	V _{OL} (DC)			0.28	V

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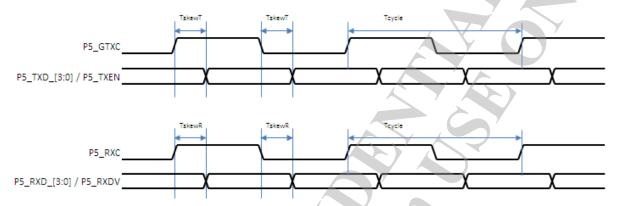
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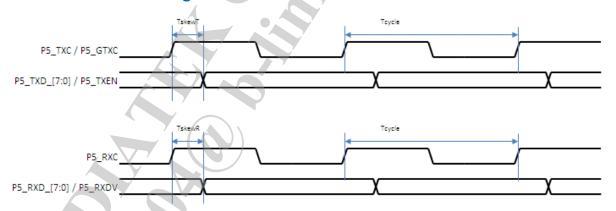
5.5 AC Characteristics

5.5.1 P5 RGMII Timing



Parameter	Symbol	Min.	Typ.	Max.	Unit
Data to Clock output Skew (at	TskewT	1.2		2.8	ne
Transmitter)	ISKEWI	1.2		2.0	ns
Data to Clock input Skew (at	TskewR	1.0		3.0	no
Receiver)	ISKEWK	1.0		3.0	ns
Clock cycle duration (1Gbps)	Tcycle		8		ns
Clock Duty Cycle	7	45		55	%

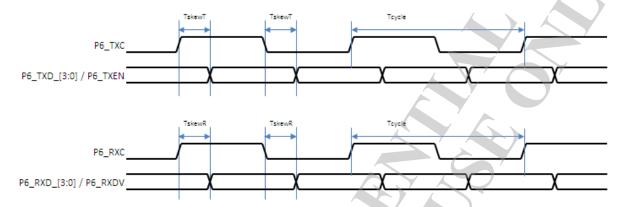
5.5.2 P5 GMII Timing



Parameter	Symbol	Min.	Тур.	Max.	Unit
Data to Clock output Skew (at	TskewT	0.5		5.5	ns
Transmitter) Data to Clock input Skew (at					
Receiver)	TskewR	0		6.0	ns
Clock cycle duration (1Gbps)	Tcycle		8		ns
Clock Duty Cycle		45		55	%



5.5.3 P6 TRGMII Timing



Symbol	Min.	Тур.	Max.	Unit
TekowT		0.2		ns
ISKEWI		0.2		115
TakowB		0.2		20
ISKEWK	X	0.2		ns
Tcycle		4		ns
	47		53	%
	TskewT TskewR	TskewT TskewR Tcycle	TskewT 0.2 TskewR 0.2 Tcycle 4	TskewT 0.2 TskewR 0.2 Tcycle 4



6 Package Dimension

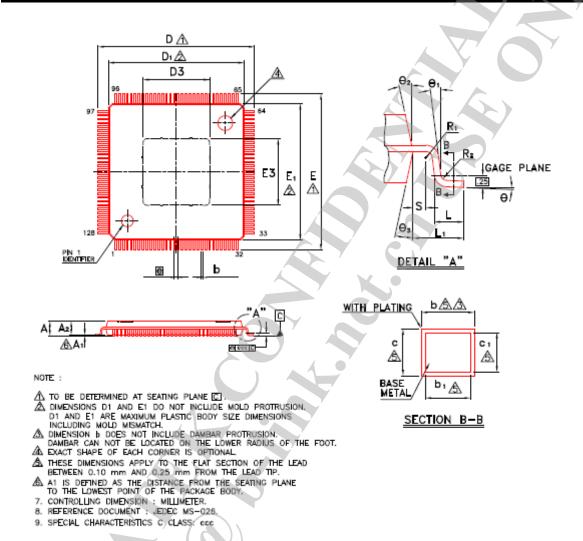


Figure 6-1. 128-Pin LQFP Package Drawing



Table 6-1. 128-Pin LQFP Package Dimension

e b - l	Dimension in mm			Dimension in inch		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	_	_	1.60	_	_	0.063
A ₁	0.025		0.125	0.001		0.005
A ₂	1.35	1.40	1.45	0.053	0.055	0.057
b	0.13	0.18	0.23	0.005	0.007	0.009
b ₁	0.13	0.16	0.19	0.005	0.006	0.007
С	0.09		0.20	0.004	—	0.008
C1	0.09		0.16	0.004	<u></u> /	0.006
D	15.85	16.00	16.15	0.624	0.630	0.636
D۱	13.90	14.00	14.10	0.547	0.551	0.555
E	15.85	16.00	16.15	0.624	0.630	0.636
E ₁	13.90	14.00	14.10	0.547	0.551	0.555
	0.40 BSC		0.016 BSC			
L	0.45	0.60	0.75	0.018	0.024	0.030
L1	1.00 REF		0.039 REF			
R ₁	0.08			0.003) —	
R₂	0.08	_	0.20	0.003	/ —	0.008
S	0.20	_	\pm	0.008	—	-
θ	0.	3.5*	7'	0,	3.5	7, ′
θ,	0.	/		0"	_	
⊕₂	12'TYP		12'TYP			
Өз	12'TYP		12'TYP			
ccc	0.08		0.003			

	Exposed Pad Size	е
L/F	Dimension in mm	Dimension in inch
D3/E3	6.80 REF	0.268 REF



7 Top Marking

MEDIATEK

MT7530BU YYWW-BM#L LLLLL

Figure 7-1. MT7530B Top Marking



MT7530WU YYWW-BM#L LLLLL

Figure 7-2. MT7530W Top Marking