

TS4GJF110

4GB USB2.0 JetFlash™

Description

TS4GJF110 is a 4GB USB Flash Drive with 2 pcs of 2Gx8 or 1 pcs of 4Gx8 Flash Memory assembled on a printed circuit board.

Outline



Features

- Color: Amber
- Elegant design with sliding USB connector
- USB 2.0 compatible, true Plug and Play
- Powered directly via the USB port. No external power or battery needed
- LED indicates the usage status of JetFlash110
- JetFlash elite software pack includes (Windows Me/2000/XP/Vista only):
 - Favorites Function: store all your favorite website addresses on the JetFlash™
 - AutoLogin Function: automatically login to websites where you have a password
 - Secret-Zip Function: compress and/or password protect saved files using AES encryption
 - PC-Lock Function: makes JetFlash™ a key to your computer
 - E-Mail Function: use your JetFlash™ to securely send, receive and save e-mails
 - DataBackup Function: backup, restore and synchronize your data

System Requirement

- Hardware: Desktop or notebook computer with USB port
- Operating System: Windows® 98SE, Windows® Me, Windows® 2000, Windows® XP, Windows® Vista and Mac™ OS 9.0 or later, Linux™ Kernel 2.4 or later

Dimensions

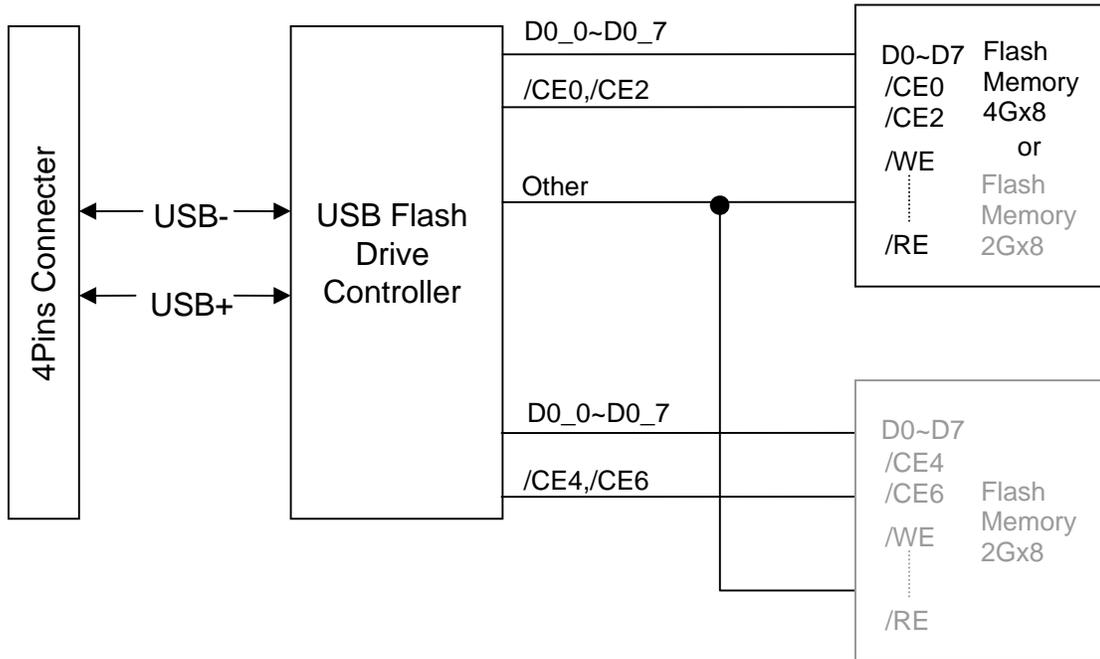
Side	Millimeters	Inches
A	64 ± 1.00	2.52 ± 0.04
B	21 ± 1.00	0.83 ± 0.04
C	10 ± 1.00	0.40 ± 0.04

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Block Diagram

- With 2 pcs 2Gx8 or 1 pcs 4Gx8 Flash Memory



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Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS

Pin Identification

Symbol	Function
USB-	USB differential signal:
USB+	The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB power input

Specifications

Environment		
Capacity		4GB
Temperature	Operating	0 °C to 70 °C
	Non-Operating	-40 °C to 85 °C
System Performance	Read	16 MB/sec (Max.)
	Write	12 MB/sec (Max.)
Power Requirement	Voltage	DC 5V ± 10%
Data Retention		10 years
Connector Durability		10,000 times
Erase Cycles		>100,000 times
Certificates		CE, FCC, BSMI

DC Characteristics

Symbol	Parameter	Min	Max	Unit
V_{IH_TTL}	TTL Input High Voltage	2	$V_{cc3}+0.3$	V
V_{IL_TTL}	TTL Input Low Voltage	-0.3	0.8	V
V_{OH_TTL}	TTL Output High Voltage	$0.9V_{cc3}$		V
V_{OL_TTL}	TTL Output Low Voltage		0.45	V
I_{OH_TTL}	TTL Output High Current	-4		mA
I_{OL_TTL}	TTL Output Low Current		4	mA
V_{IH_USB}	USB Input High Voltage for Low-/full-speed	2.0		V
V_{IL_USB}	USB Input Low Voltage for Low-/full-speed		0.8	V
$V_{I_USB_DIFF}$	Differential Input Sensitivity for Low-/full-speed	TBD		V
$V_{I_USB_CM}$	Differential Common Mode Input Range for Low-/full-speed	0.8	2.5	V
$V_{I_USB_HSSQ}$	USB High-speed squelch Input detection threshold	0.1	0.15	V
$V_{I_USB_HSDSC}$	USB High-speed disconnect Input detection threshold	0.525	0.625	V

Symbol	Parameter	Min	Max	Unit
$V_{I_USB_HSCM}$	USB High-speed Signaling Common Mode Range	-0.05	0.5	V
V_{OH_USB}	USB Output High Voltage for Low-/full-speed	2.8	3.6	V
V_{OL_USB}	USB Output Low Voltage for Low-/full-speed	0	0.3	V
$V_{OH_USB_HS}$	USB Output High Voltage for High-speed	0.36	0.44	V
$V_{OL_USB_HS}$	USB Output Low Voltage for High-speed	-0.01	0.01	V
I_{OH_USB}	USB Output High Current for Low-/full-speed	-10		mA
I_{OL_USB}	USB Output Low Current for Low-/full-speed		10	mA
$I_{OH_USB_HS}$	USB Output High Current for High-speed	-40		mA
$I_{OL_USB_HS}$	USB Output Low Current for High-speed		40	mA

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AC Characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit
TP _{ILH}	Input Rising Delay	0.61 (0.8pF)	0.72 (2.4pF)	0.92 (4.8pF)	ns
TP _{IHL}	Input falling Delay	0.88 (0.8pF)	1.03 (2.4pF)	1.24 (4.8pF)	ns
TP _{OLH}	Output Rising Delay	2.40 (10pF)	3.42 (30pF)	4.88 (60pF)	ns
TP _{OHL}	Output falling Delay	2.61 (10pF)	3.62 (30pF)	5.03 (60pF)	ns
TR	Output Rising Time	2.26 (10pF)	4.45 (30pF)	7.83 (60pF)	ns
TF	Output falling Time	1.90 (10pF)	3.63 (30pF)	6.23 (60pF)	ns

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