

# **Traveling Disk U172P**

**6172-XXXXRXXXX**

Revision History

Revision	Date	History	Remark
Ver1.0	08/18 '08	New Creation	

## 1. Introduction to U172P

The **new U172P series** with the light, refined and stylish features that gives you portability and security to offer you a peace of mind. The no loss cap design can simply snap onto the flash drive when using it and searching for lost caps will be a thing of the past. Mini metallic housing with high memory capacity. Compatible with USB 2.0 / 1.1 specifications with low power consumption and data protection.

## 2. Main Features Overview

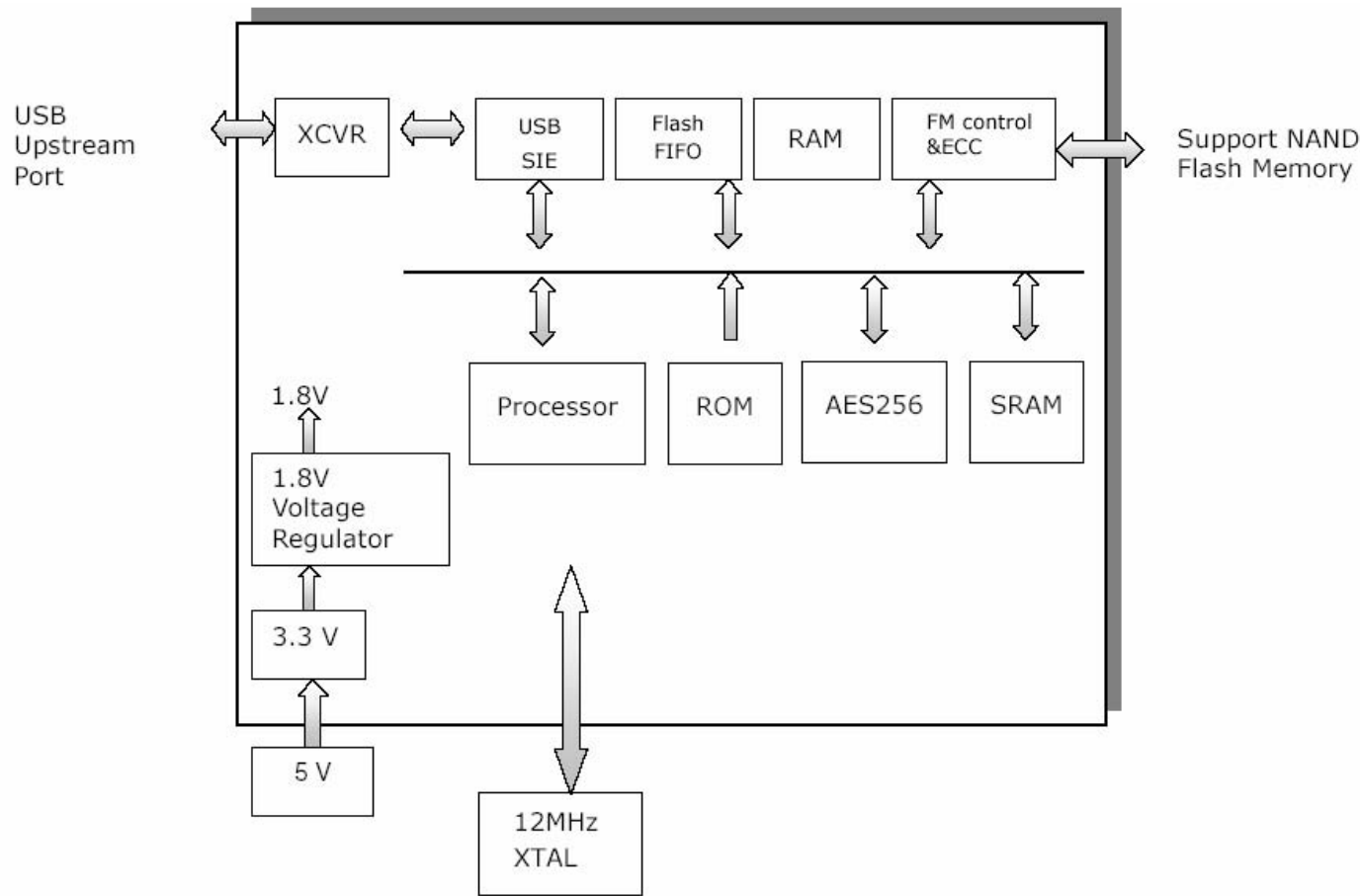
- ◆The no loss cap design, Simple and stylish
- ◆Metallic Housing with High Memory Capacity
- ◆Mobile USB flash drive, USB 2.0 compatible
- ◆Hot swappable, USB Plug & Play compatible
- ◆Light and easy to carry
- ◆Can use strap
- ◆Lid will fill perfectly onto the end of the drive

## 3. Product Specification

<b>USB Interface</b>		High-speed USB 2.0 interface; backward compatible with USB 1.1
<b>NAND Flash Interface</b>		Integrated ECC circuits for 4-bit error correction
<b>OS Support</b>		No drive is required for Windows ME, 2000, XP, Vista or Mac OS 9.x
<b>Environment</b>		
Temperature	Operating	0°C~40°C
	Non-Operating	-20°C~60°C
Vibration	Operating	0.2G
	Non-Operating	15G
Shock resistant	Operating	150G
	Non-Operating	1000G
<b>Configuration</b>		
Capacity		128Mbytes~8GBytes
<b>Reliability</b>		
MTBF(@25°C)		1,000,000 hours
<b>Power Requirement</b>		
Voltage		5V
<b>Power Consumption</b>		
Read		<100mA
Write		<120mA
Standby		<100mA
Un-configuration		<100mA
Suspend		<1.5mA

Important!! Please make sure the driver matches the part number on your pen drive before you download. Software AP System Requirements. One of following operation systems: Windows 98/98SE/Windows ME/Windows 2000/Windows XP/Vista The advertised memory capacity of this device represents unformatted capacity. Please note that once formatted and due to variations in flash module block limitations, the functional storage space will be lower than the advertised capacity. "PQI reserves the right to make changes without notification when fit, form, function, quality and reliability are not affected. The data sheets do not constitute contract documents and should not be considered part of the specification for purposes of any warranty."

4. Block Diagram



5. Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
$V_{DDH}$	Power Supply	-0.3 to $V_{DDH} + 0.3$	V
$V_{IN}$	Input Signal Voltage	-0.3 to 3.6	V
$V_{OUT}$	Output Signal Voltage	-0.3 to $V_{DDH} + 0.3$	V
$T_{STG}$	Storage Temperature	-40 to 150	°C

## 6. DC Characteristics

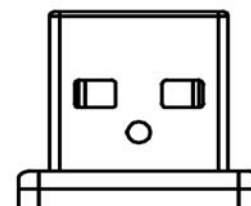
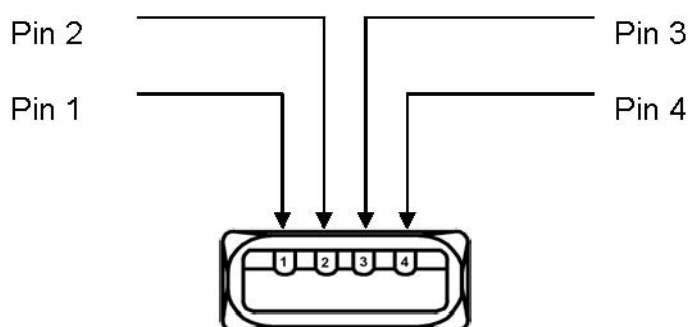
Symbol	Parameter	Conditions	Min.	Typical	Max.	Units
$I_{IN}$	Input current	No pull-up or pull-down	-10	$\pm 1$	10	$\mu A$
$I_{OZ}$	Tri-state leakage current		-10	$\pm 1$	10	$\mu A$
$C_{IN}$	Input capacitance	Pad Limit		2.8		pF
$C_{OUT}$	Output capacitance	Pad Limit		2.8		pF
$C_{BID}$	Bi-directional buffer capacitance	Pad Limit		2.8		pF

## 7. Recommended Operating Conditions

Symbol	Parameter	Min.	Typical	Max.	Units
$A_{DD}$	5V Power Supply	4.75	5.0	5.0	V
$V_{DDH}$	Power Supply	3.0	3.3	3.6	V
$V_{DD}$	Digital Supply	1.62	1.8	1.98	V
$V_{IN}$	Input Signal Voltage	0	3.3	3.6	V
$T_{OPR}$	Operating Temperature	0		70	$^{\circ}C$

## 8. Pin Assignments

Pin No.	Pin Name	Function
1	VCC	USB power input
2	USB D-	USB differential signal
3	USB D+	The pairs are used to transmit Data/Address/Command
4	VSS	Ground



## 9. Physical Specifications

### 9.1 Dimensions:

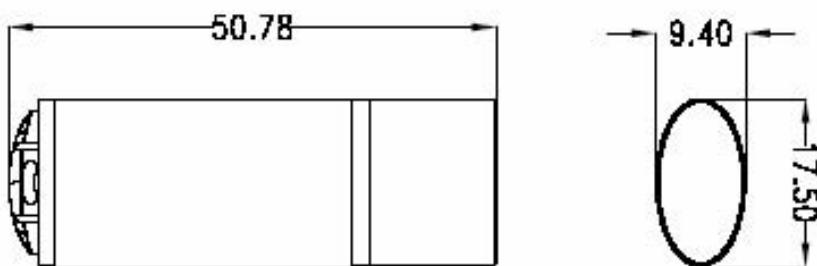
9.1.1 Height: 50.78 mm

9.1.2 Width: 17.50 mm

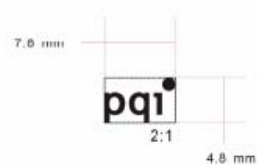
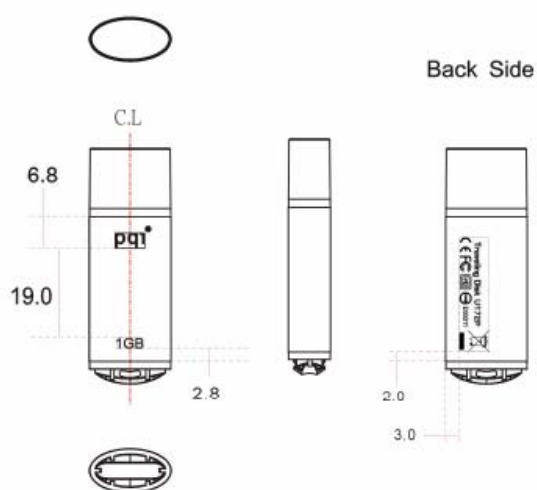
9.1.3 Depth: 9.40 mm

9.1.4 Weight: 10g  $\pm$  0.2 g

### 9.2 Outline of top view



### U172P Artwork Back



產品名字型規格

字型: Square721 DM

樣式: Normal

