

# TS-RDP7K/W

## USB2.0 Portable Multi-Card Reader

### Description

TS-RDP7K/W is a USB2.0 Portable Multi-Card Reader. With 3 slots and USB hub function, it is a slim device specifically designed for fast, easy data transfer and exchange using multiple types of Memory Cards and USB Flash Drives.

### Features

- Color: Black / White
- Fully Compliant with the Hi-Speed USB 2.0 specification
- USB powered (no external power or battery needed)
- LED indicates card insertion and data traffic
- Support 3 USB ports.

Do not plug a heavy power consumption device(over 500mA) into the USB hub, such as external hard drives

- Built-in USB A-type cable.
- Supports many different types of Memory Cards

Insert directly:

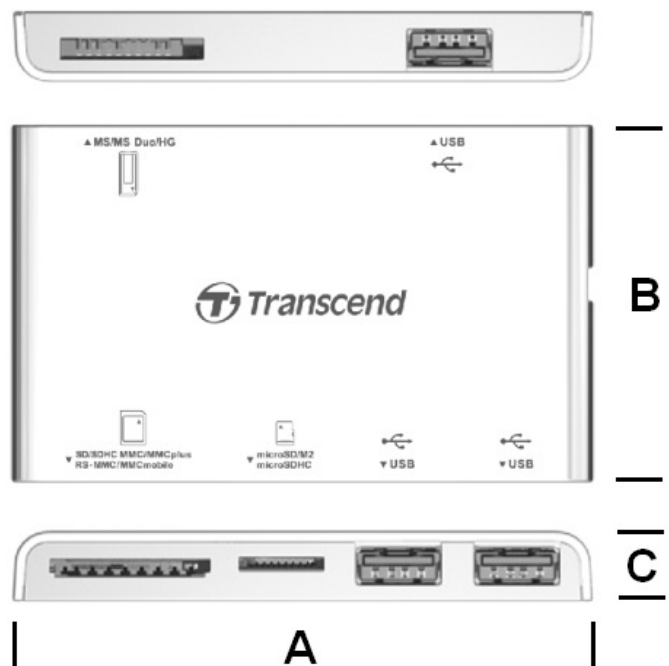
- **Secure Digital (SD™)**
- **SDHC (Secure Digital High Capacity)**
- **microSDHC**
- **microSD™ / TransFlash**
- **MultiMediaCard (MMC™)**
- **MMCplus™**
- **RS-MMC**
- **MMCmobile™**
- **Memory Stick™ (MS)**
- **Memory Stick PRO™**
- **Memory Stick Duo™**
- **Memory Stick PRO Duo™**
- **Memory Stick PRO-HG Duo™**
- **Memory Stick Micro™ (M2)**

Need an adapter of SD interface:

- **MMCmicro™**
- **miniSD™**
- **miniSDHC**

The reader does not support more than one memory card at a time.

### Placement



### Dimensions

Side	Millimeters	Inches
A	88.00 ± 1.0	3.47 ± 0.04
B	54.00 ± 1.0	2.13 ± 0.04
C	10.60 ± 1.0	0.42 ± 0.04

### System Requirements

- Desktop or notebook computer with a working USB port
- One of the following Operating Systems:
  - Windows<sup>®</sup> Me
  - Windows<sup>®</sup> 2000
  - Windows<sup>®</sup> XP
  - Windows Vista<sup>™</sup>
  - Windows 7<sup>™</sup>
  - Mac<sup>™</sup> OS 9.x, or later
  - Linux<sup>™</sup> Kernel 2.4.2, or later

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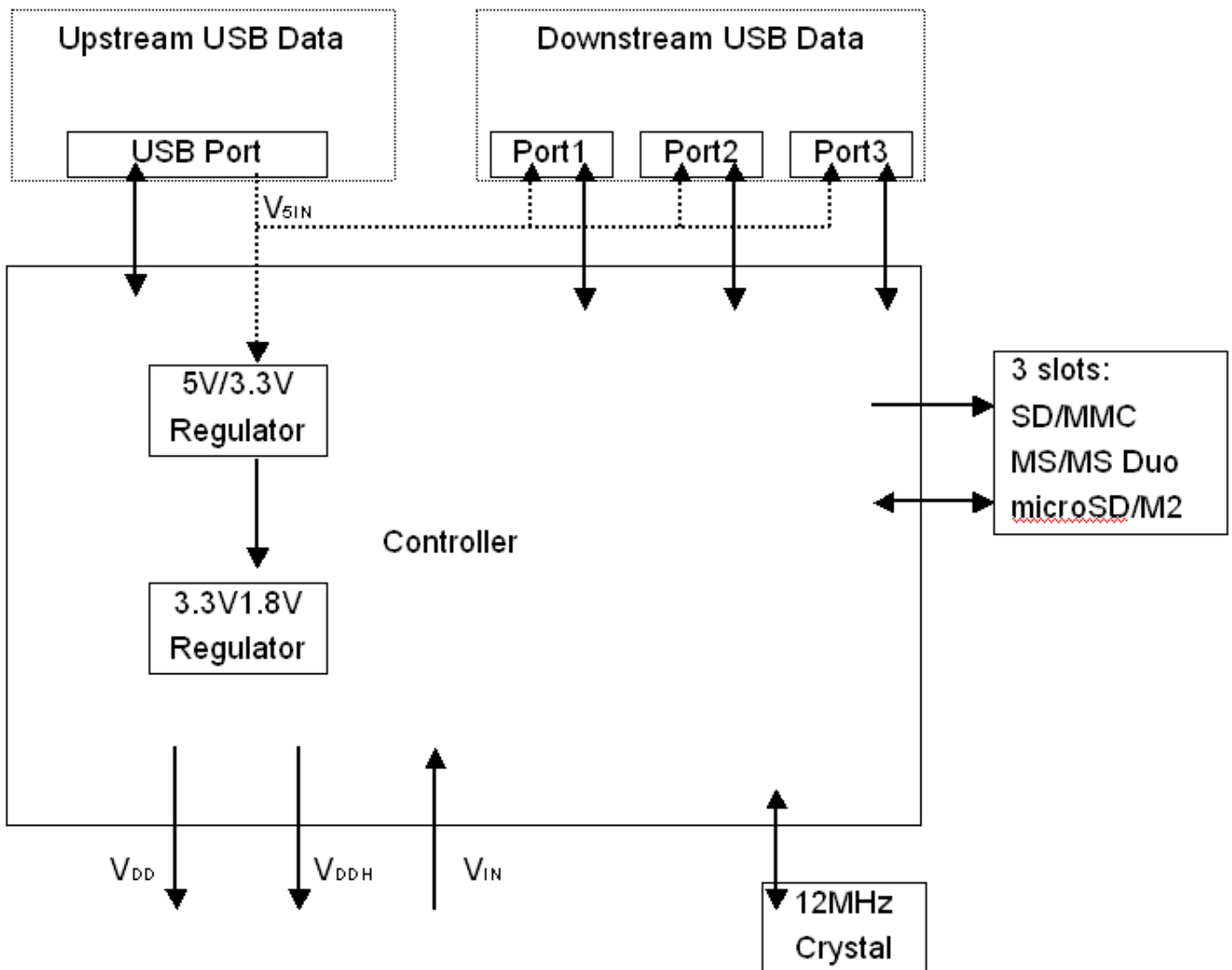
### USB Pinouts

Pin No.	Pin Name
01	V <sub>5IN</sub>
02	USB-
03	USB+
04	VSS

### USB Pin Identification

Symbol	Function
USB- USB+	USB differential signal: The pairs are used to transmit Data/Address/Command
VSS	Ground
V <sub>5IN</sub>	USB Power Input

### Block Diagram



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## Recommended Operating Conditions:

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS
V <sub>5IN</sub>	5V Power Supply	4.0	5.0	5.5	V
V <sub>DDH</sub>	Power Supply	3.0	3.3	3.6	V
V <sub>DD</sub>	Digital Supply	1.62	1.8	1.98	V
V <sub>IN</sub>	Input Signal Voltage	0	3.3	3.6	V
T <sub>OPR</sub>	Operating Temperature	0		85	°C

## General DC Characteristics:

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>IN</sub>	Input current	No pull-up or pull-down	-10	±1	10	μA
I <sub>OZ</sub>	Tri-state leakage current		-10	±1	10	μA
C <sub>IN</sub>	Input capacitance	Pad Limit		2.8		pF
C <sub>OUT</sub>	Output capacitance	Pad Limit		2.8		pF
C <sub>BID</sub>	Bi-directional buffer capacitance	Pad Limit		2.8		pF

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### DC Electrical Characteristics of 3.3V I/O Cells:

SYMBOL	PARAMETER	CONDITIONS	Limits			UNIT
			MIN	TYP	MAX	
$V_{D33P}$	Power supply	3.3V I/O	3.0	3.3	3.6	V
$V_{il}$	Input low voltage	LVTTL			0.8	V
$V_{ih}$	Input high voltage		2.0			V
$V_{ol}$	Output low voltage	$ I_{ol}  = 2\sim 16\text{mA}$			0.4	V
$V_{oh}$	Output high voltage	$ I_{oh}  = 2\sim 16\text{mA}$	2.4			V
$R_{pu}$	Input pull-up resistance	PU=high, PD=low	55	75	110	$K\Omega$
$R_{pd}$	Input pull-down resistance	PU=low, PD=high	40	75	150	$K\Omega$
$I_{in}$	Input leakage current	$V_{in} = V_{D33P}$ or 0	-10	$\pm 1$	10	$\mu A$
$I_{oz}$	Tri-state output leakage current		-10	$\pm 1$	10	$\mu A$

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