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KT-12XY

KEY BOARD WEDGE
CARD READER


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A P P R O V A L		

RESP. DEPT.	R & D		ORIGINATOR	LEE SANG YOUNG		
APPROVAL & CONFIRMATUON	DEPT.	Int'l Sales				
	APPROVED BY					
	DEPT.				DOC. CONTROL	APPROVAL
	APPROVED BY					

REVISION HISTORY

CHECK	ISSUED PATE	SCRIPTION	TOTAL PAGE
ISSUE	94.05.17	- KEY BOARD WEDGE CARD READER KT-12XY SPECIFICATION ISSUE (UNITED : 91152028 / 91152032)	7
REVISION		- CHANGE OF SHEET	7

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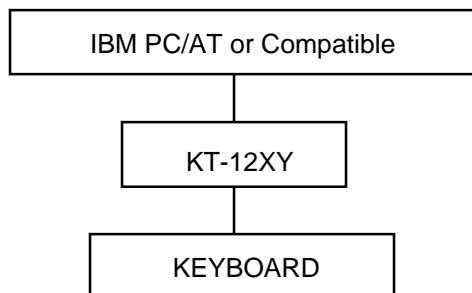
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1. OVERVIEW

KT-12XY series is a compact-sized manual swipe type card reader with keyboard Interface.
It's used in more 286 AT PC.

MODEL	TRACK USED	REMARKS
KT-121Y	Track 1	Y=0 : DIN 5P Male Y=1 : MINI DIN 6P Male
KT-122Y	Track 2	
KT-123Y	Track 3	
KT-125Y	Track 1 / Track 2	
KT-126Y	Track 2 / Track 3	
KT-128Y	Track 1 / Track 2 / Track 3	

2. SYSTEM BLOCK DIAGRAM



3. SPECIFICATIONS

3.1. Card Standards

CARD STANDARD	ISO-7811		
READING METHOD	F2F(FM)		
TRACK USED	TRACK1	TRACK2	TRACK3
	ISO I (IATA)	ISO II (ABA)	ISO III (MINTS)
READING DENSITY	210 BPI	75 BPI	210 BPI
READING CAPACITY	79 CHARACTERS (7-BIT CODE)	40 CHARACTERS (5-BIT CODE)	107 CHARACTERS (5-BIT CODE)
CARD THICKNESS	PLASTIC : 0.76 ± 0.08mm		

3.2. Environmental Requirements

3.2.1. Ambient Temperature


- Storage : -20°C ~ 70°C
- Operating : 0°C ~ 50°C

3.2.2. Ambient Relative Humidity

- Storage : 0 ~ 95% RH
- Operating : 20 ~ 90% RH (No Condensation)

3.2.3. Vibration : Amplitude 2 mm within 2G or less, 10 to 55 Hz in X, Y, Z directions for 30 min.

3.2.4. Shock : 30G, 11ms

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3.3. Physical Characteristics

- 3.3.1. Dimensions : 38mm(W) X 135mm(D) X 45.7mm(H)
- 3.3.2. Weight : Approx. 180g
- 3.3.3. Power Supply : 5V DC (Supplied from the host computer)
- 3.3.4. Current : Less than 65 mA
- 3.3.5. Operation Locus : Indoor only

3.4. Operational Characteristics

- 3.4.1. Card Feeding Speed : 20 to 120 cm/sec
- 3.4.2. Heed life time : min. 500,000 passes

3.5. Jitter : Less than 18 %

4. DATA FORMAT

4.1. Basic Format

- 4.1.1. Track ID + Data + CR
- 4.1.2. Track ID : Track Identification Character

- Track 1 : 25h (%)
- Track 2 : 3Fh (?)
- Track 3 : 5Eh (^)

4.2. Transmission Data Format


- 4.2.1. KT-125Y : Track #1 (Track ID + Data + CR) + Track #2 (Track ID + Data + CR)
- 4.2.2. KT-126Y : Track #3 (Track ID + Data + CR) + Track #2 (Track ID + Data + CR)

5. DIP S.W CONFIGURATION



1 : ON, 0 : OFF

Function Dip S.W	1	2	3	4	5	6	7	8	REMARKS
KT-121Y	1	NC	0	0	1	NC	NC	NC	Track 1
KT-122Y			0	1	0				Track 2
KT-123Y			1	0	0				Track 3
KT-125Y			0	1	1				Track 1, 2
KT-126Y			1	1	0				Track 2, 3
KT-128Y	1	1	1		1	1			Track 1,2,3

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6. OPERATING PROCEDURES

6.1. Power-On

6.1.1. Good : Green LED lit for 400 ms and buzzer beeps for 400 ms

6.1.2. Error : Red LED lit for 400 ms and buzzer beeps for 400 ms

6.2. Card Reading

6.2.1. Valid Reading : Green LED lit for 400 ms and buzzer beeps for 400 ms

6.2.2. Invalid Reading : Red LED lit for 800 ms and buzzer beeps per 130ms for three times

7. SIGNAL CABLE SPECIFICATION

	KT-12X0	KT-12X1
Connector	DIN 5P Male, Female	MINI DIN 6P Male, Female
Cable	UL2464-SB SR-PVC AWG 26 6P Shield cable	UL2464-SB SR-PVC AWG 26 5P Shield cable
Length	System - 1500mm , Key board - 300mm	

8. CONNECTION

- 300mm Female -> Key Board

- 1500mm Male -> System

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9. DIMENSIONS

