

Operational Description of the equipment

The EUT is an excellent tool for mobile professionals. The equipment consists of the following: Keyboard Transmitter + Receiver

Wireless keyboard:

When Power on, Input Voltage is first ensured to 3.0V by DC to DC converter, and Power Reset is done. Random Keyboard ID can be sent then. After detecting signals from Keymatrix, controller would encode the signals and later modulate to 27.095MHz radio frequency and transmit to the air.

Receiver:

When Mouse & Keyboard send Random ID signals, press ID switch of the receiver and link between them will be set up. Any time RF signals from mouse or keyboard reach the Antenna, demodulation will be done and later decoded by the controller. Finally data of mouse and keyboard will be transferred to PC via PS/2 mouse port of PS/2 keyboard port separately.

PRODUCT	Wireless Keyboard
MODEL NO.	AKM-K02xxx, AKM-A5K02, AKM-A6K02, AKM-A7K02, AKM-A8K02, AKM-A9K02, AKM-B0K02, AKM-B3K02, AKM-B4K02, AKM-B5K02
BRAND NAME	Agiler, Sysgration
POWER SUPPLY	3Vdc, 8mA from battery (AA x 2) for transmitter part 5Vdc from PC system for receiver part
CABLE	1.1m unshielded data cable for receiver part
CARRIER FREQUENCY	27.095 MHz
NUMBER OF CHANNEL	1
RATED RF OUTPUT POWER	2dBm
I.F. & L.O.	I.F.: 455KHz, L.O.: 32.768KHz
MODULATION TYPE	FSK
BIT RATE OF TRANSMISSION	4kbps
ANTENNA TYPE	Loop Antenna
ANTENNA GAIN	0dBi

NOTE :

The product is a wireless keyboard which includes transmitter part (TX) and receiver part (RX). The "x" in the model numbers can be 0-9, A-Z or blank. It is indicated that different between color of enclosure and customer.

The EUT has several model numbers as above on market. They are identical in all aspects except for support wireless mouse(manufacturer must be Sysgration Ltd.). The model no.: AKM-K02 was chosen as the representative for testing.

For more detailed features, please refer to the manufacturer's specification or User's Manual.