

User Instruction for VIP-350™ PC Keyboard Extender System

FEDERAL COMMUNICATIONS COMMISSION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE

This equipment has been tested and found to conform to the directives and standards for a Class A Information Technology Equipment type and for the Commercial and Light Industrial equipment class.

INTRODUCTION

Vetra's Model VIP-350™ PC Keyboard Extender System allows a PS/2 compatible keyboard to be located remotely from the PC. It also accepts a local keyboard, which can be connected to the Receiver Unit. The Extender System consists of one VIP-350-R Receiver Unit, one VIP-350-T Transmitter Unit and one VIP-210 Power Supply (5Vdc 2 A 100 – 240 Vac 50/60 Hz). The Receiver Unit is powered from the PC while the Transmitter Unit receives its power from the VIP-210.

NOTE: If a Power Supply other than the VIP-210 is used, then all claims to FCC and or CE regulations cease to exist.

INSTALLATION

Follow these steps to install the VIP-350 Keyboard Extender System.

Connection of the Receiver Unit to the PC must be made with the PC powered off !

1. Connect the Receiver Unit to the PC. Use the male-male keyboard extension cable (5-pin DIN) supplied with the system to connect the PC's keyboard input to the female 5-pin DIN connector of the Receiver marked "TO PC KBD IN". If necessary, use an adapter supplied to convert the 5-pin DIN connection into a 6-pin DIN connection.
2. Connect the local keyboard (optional). Use the local keyboard's cable to connect it to the female 5 or 6-pin DIN connector of the Receiver marked "KBD IN". The local keyboard is powered from the PC via Receiver and via the keyboard cable.
3. Connect the remote keyboard to the Transmitter Unit. Use the keyboard's cable to connect to the 5 or 6-pin DIN female connector on the Transmitter marked "KBD IN".
4. Connect the Power Supply to the Transmitter Unit. Connect the PL6 connector of the Power Supply to the PL6 female connector on the Transmitter Unit marked "EXT. +5VDC".
5. Set the baud rate on both units. The four available baud rates, 1200, 2400, 4800, and 9600, are controlled by switches 1 and 2 of the Dipswitch SW1 as shown in the Baud Rate Selection Diagram. Dipswitch SW1 is located next to the DB9 connector on both units. For a new baud rate to take effect, the units must be powered off, and then powered on again. The factory default is 9600 baud. The system will not operate properly unless the baud rates for both units are not set the same.



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6. Connect the Transmitter and Receiver Units. Use a quality RS-232 cable with female DB9 connectors at both ends for this connection. The cable should be wired as follows:

DB9 FEMALE CONNECTOR PIN #	DB9 FEMALE CONNECTOR PIN #	SIGNAL NAME
2	2	RXD
3	3	TXD
5	5	GND
7	7	RTS
8	8	CTS
SHIELD	SHIELD	SHIELD

OPERATION

With the Receiver and Transmitter Units connected, the Extender System is ready for operation. The Transmitter can be powered up at any time. It does not have to be coordinated with the power up of the PC.

THEORY OF OPERATION

The VIP-350 Extender System uses RS-232 protocol to communicate between the Transmitter Unit and the Receiver Unit. The RS-232 protocol permits essentially unlimited distance between the two units by use of standard RS-232 techniques to extend distance.

The Transmitter will assert RTS (DB9 pin 7) when either the remote keyboard and or mouse are active. The Transmitter will also send data only when incoming CTS (which is checked at DB9 pin 8) is asserted.

SPECIFICATIONS

Power: The Transmitter is powered from an external power supply, supplying 5 volts regulated, rated at 2 A. The Receiver Unit is powered from the PC.

Dimensions: Both the Receiver and Transmitter units are 1.5 in H x 5.08 in W x 5.25 in D (3.81 by 12.90 by 13.34 cm).

Connection of Local Keyboard: By the keyboard's captive cable to a female 5 or 6-pin DIN connector on the Receiver, marked "KBD IN".

Connection of Remote Keyboard: By the keyboard's captive cable to female 5 or 6-pin DIN connector on the Transmitter, marked "KBD IN".

Connection to PC: By male-male 5 & 6-pin DIN cables with adapter (which is supplied with the VIP-350), to connect the Receiver Unit to the PC's keyboard and mouse ports.

PARTS LIST

QTY	MODEL #	DESCRIPTION
1	VIP-350-R	Receiver Unit
1	VIP-350-T	Transmitter Unit
1	VIP-210	Power Supply
1	VIP-300-5MM-06	Extension cable 5-pin male to male
1	VIP-301-5F6M	Adapter 5-pin female to 6-pin male
1		User Instructions

BAUD RATE SELECTION DIAGRAM

Baud Rate 9600

X X X X UP
DN

1 2 3 4

Baud Rate 4800

X X X UP
X X X DN

1 2 3 4

Baud Rate 2400

X X X UP
X X X DN

1 2 3 4

Baud Rate 1200

X X X UP
X X DN

1 2 3 4

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