MANUAL PART NUMBER: 400-0398-002

DA1934KM

KEYBOARD and MOUSE

RECEIVER FROM FIBER OPTIC

USER'S GUIDE

ALTINEX

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PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **DA1934KM**. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **DA1934KM** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 GENERAL

- Qualified ALTINEX service personnel, or their authorized representatives must perform all service.

1.2 INSTALLATION

- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **DA1934KM** in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.

- Handle the **DA1934KM** carefully. Dropping or jarring can damage the unit.

- Do not pull the cables that are attached to the **DA1934KM.**

1.3 CLEANING

- Clean only with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit. Do not open the unit to clean.

1.4 FCC / CE NOTICE

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- 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 the 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.

- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

DA1934KM
KEYBOARD/MOUSE FIBER OPTIC RECEIVER

The **DA1934KM** provides a means of receiving keyboard and mouse serial data from a single fiber optic cable. The **DA1934KM** is designed to be used together with an ALTINEX Keyboard/Mouse to Fiber Optic Transmitter, such as the DA1935KM.

The **DA1934KM** is compact and easy to use. The **DA1934KM** is able to receive both keyboard and mouse data transmitted over the same fiber optic cable from the DA1935KM or equivalent Transmitter.

The **DA1934KM** may also be used to receive mouse and keyboard data from different computers when used in an Altinex Multi-Tasker™ Enclosure, with a matrix system that includes the MT107-204 and MT107-304.

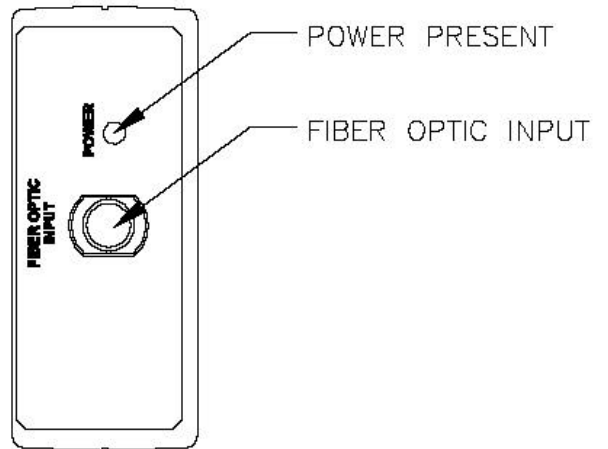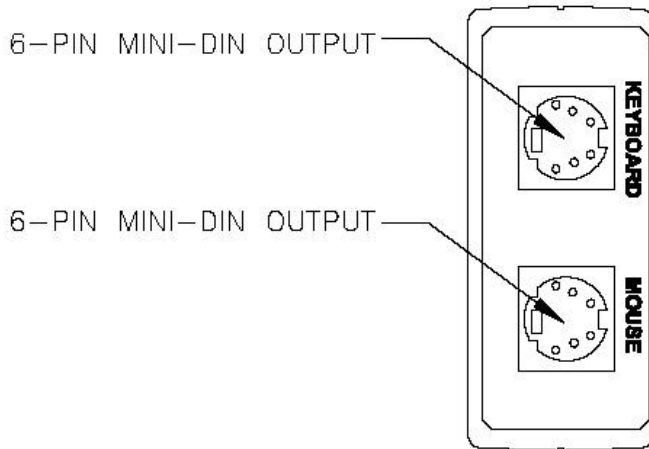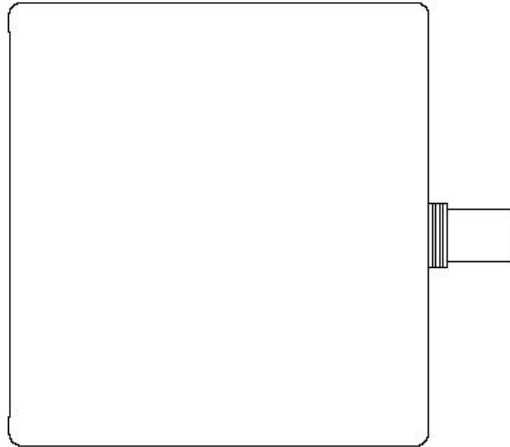| FEATURES/ DESCRIPTION	DA1934KM
GENERAL	
Inputs	1
Input Connector	ST Fiber Optic Receiver
Outputs	2
PC Compatible Keyboard and Mouse	6 Pin Mini DIN Female
Compatibility	
Signal types	Keyboard and Mouse Serial Data
Signal Rate	5Mbaud
Operating Systems	Windows 2000, NT and XP[*]
Mouse Types	(1) 5 buttons, 1 wheel (2) 2 buttons, 1 wheel (3) 2 buttons, no wheel

Table 1. **DA1934KM** General

MECHANICAL	DA1934KM
Material	0.062" ABS 94 HB
Finish	ALTINEX Black
Height (inches)	2.40in (60.9mm)
Width (inches)	2.27in (57.7mm)
Depth (inches)	1.00in (25.4mm)
Weight (pounds)	0.14lb (0.06kg)
Ship Weight (pounds)	0.5lbs (0.23kg)
T° Operating	10°C-40°C
T° Maximum	50°C
Humidity	90% non-condensing
MTBF (calculations)	40,000 hrs

Table 2. **DA1934KM** Mechanical

ELECTRICAL	DA1934KM
Input	
Fiber Optic Receiver	
Compatible Fibers	62.5/125um
Output	
Keyboard and Mouse Serial Data	TTL Levels
Maximum Rate	5MBaud (5mb/s)
Power	n/a

Table 3. **DA1934KM** Electrical

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[*] Windows 98 and earlier operating systems are not supported.

ALTINEX

SIGNAL MANAGEMENT SOLUTIONS

PRODUCT DESCRIPTION 4

6-PIN MINI-DIN OUTPUT — KEYBOARD

6-PIN MINI-DIN OUTPUT — MOUSE

POWER — POWER PRESENT

FIBER OPTIC INPUT — FIBER OPTIC INPUT

ALTINEX

SIGNAL MANAGEMENT SOLUTIONS

Tel: 714-990-2300 • Toll-Free: 1-800-ALTINEX • FAX: 714-990-3303 • E-mail: solutions@altinex.com • Web: www.altinex.com

APPLICATION DIAGRAM   5

DIAGRAM 1: TYPICAL CONFIGURATION

DIRECT CONNECT

DA1935KM   DA1934KM

MULTI-TASKER MATRIX SWITCH

DA1935KM   DA1934KM
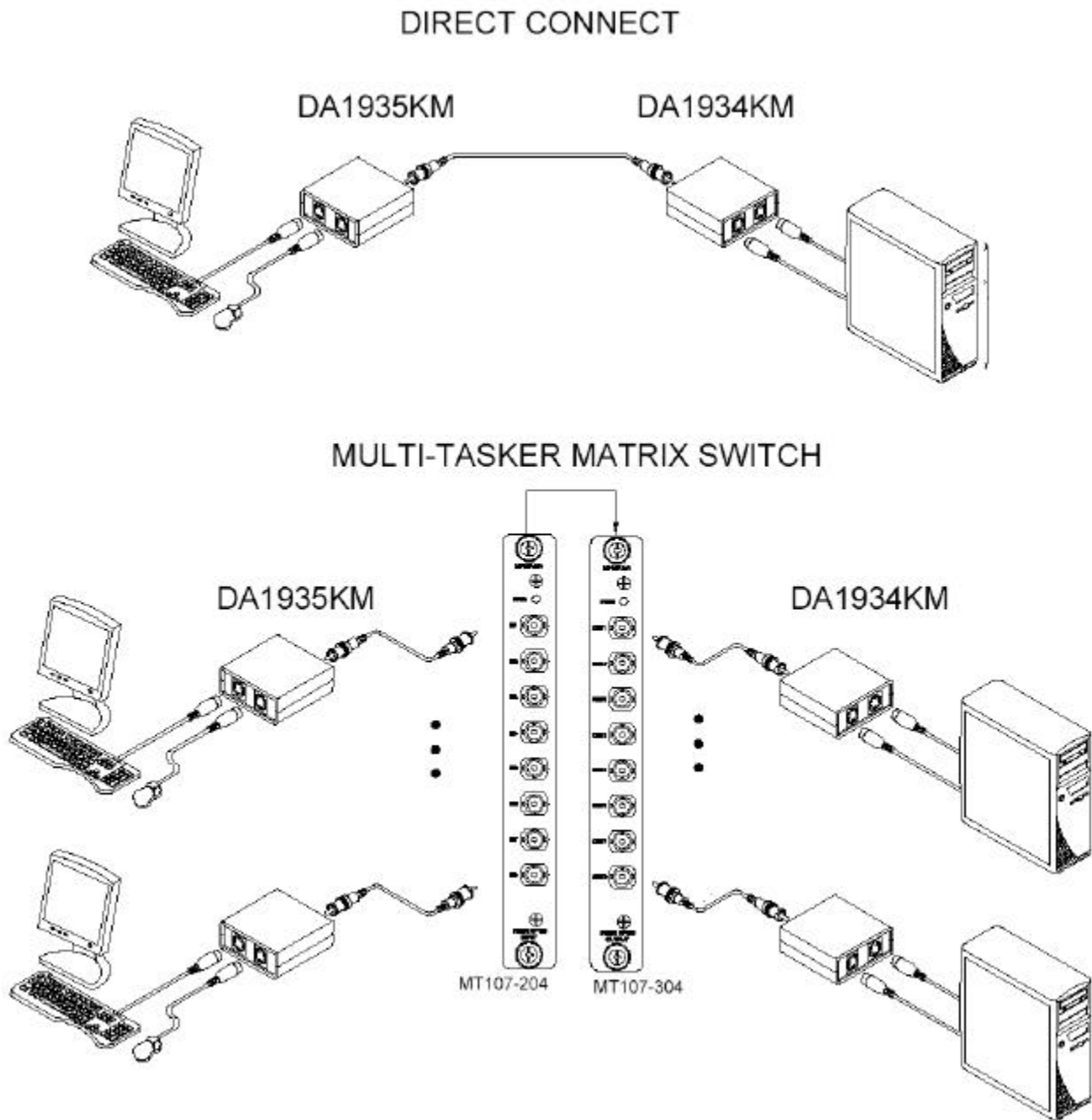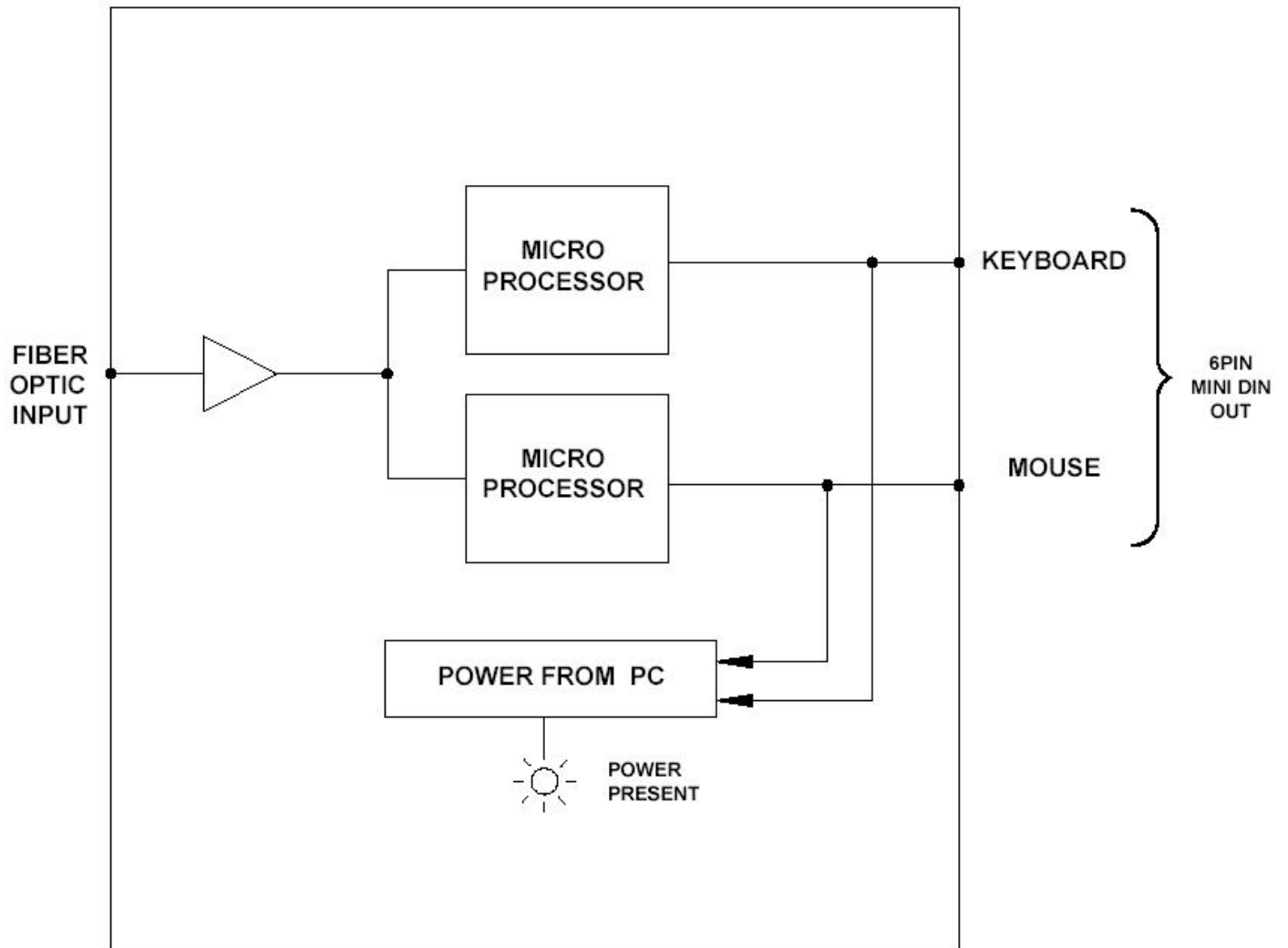
MT107-204   MT107-304

DIAGRAM 2: INTERNAL VIEW

DA1934KM
KEYBOARD/MOUSE RECEIVER TO FIBER OPTIC CABLE

INSTALLING YOUR DA1934KM 6

Step 1. Make sure the keyboard and mouse are attached to the **DA1935KM** Transmitter and that the transmitter is plugged in and has power.

Step 2. Connect the **DA1934KM** to the **DA1935KM** using a fiber optic cable.

Step 3. Turn OFF the computer.

Step 4. Connect the **DA1934KM** Keyboard port to the computer keyboard port using a 6-pin DIN male to 6-pin DIN male cable.

Step 5. Connect the **DA1934KM** Mouse port to the computer mouse port using a 6-pin DIN male to 6-pin DIN male cable.

Step 6. Turn the computer back ON, and verify the POWER LED is illuminated RED indicating power is ON.

Step 7. Verify the mouse and keyboard operate the remote computer.

OPERATION 7

There are no settings or adjustments to be made on the **DA1934KM**. The **DA1934KM** will operate successfully as long as cables are attached properly and other technical specifications are followed.

TROUBLESHOOTING GUIDE 8

We have carefully tested and have found no problems in the supplied **DA1934KM.** However, we would like to offer suggestions for the following:

8.1 LED IS NOT RED

The LED should be ON and RED when power is applied.

Cause 1: **No power from the computer.**

Solution 1: Verify the keyboard and mouse cables are plugged all the way into the **DA1934KM**. If there is still no power, see Solution 2.

Solution 2: Make sure the computer is on and functioning. If the computer is on and working, and there is still no power to the **DA1934KM**, please call ALTINEX at (714) 990-2300.

8.2 KEYBOARD/MOUSE DOES NOT WORK

Cause 1: **The cables are swapped.**

Solution: If both devices are inoperative, check the attachments to the **DA1934KM** and the **DA1935KM**. Make sure the mouse is plugged into the **DA1935KM** port labeled Mouse and the keyboard to the port labeled Keyboard. On the receiving end, make sure the Mouse output of the **DA1934KM** is connected to the mouse input port on the computer and the keyboard is connected to the Keyboard port. If the devices still do not function properly, see Cause 2.

Cause 2: **A device is not recognized.**

Solution 1: Reset power on the DA1935KM Transmitter. Make sure the keyboard LED's flash when power is turned ON. Wait a few seconds for the initialization process to complete. Check the device again, if it is still not working, try Solution 2.

Solution 2: Restart the computer. After the computer has initialized, try the device again. If it still does not work, see Cause 3.

Cause 3: **A device is bad.**

Solution: If only one of the devices is malfunctioning, connect the inoperative device directly to the computer. If the device is good, see Cause 4.

Cause 4: **Fiber optic cable is damaged.**

Solution: Move the **DA1934KM** and the **DA1935KM** close together and connect the two units using a short piece of known good fiber optic cable. If the devices function properly, the cable needs to be replaced. If the devices are still not functioning, call ALTINEX at (714) 990-2300.

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9.1 LIMITED WARRANTY/RETURN POLICY

Please see the Altinex website at www.altinex.com for details on warranty and return policy.

9.2 CONTACT INFORMATION

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