Intelligent 4 Door Access Module Integriti Firmware Upgrade Kit

P/No: 994112C/I

Installation Instructions

This Firmware Upgrade Kit allows an Intelligent 4 Door Access Module to be used with a Concept 4000 System OR an Integriti System V2 or later. The Mode of operation is selected via a DIPswitch.

TOOLS REQUIRED
 - IC Extraction Tool (Or a small Flat Blade Screwdriver)
 - IC Insertion Tool. (Recommended, but not mandatory)

IMPORTANT NOTES:

1.   **POWER WARNING. Disconnect the AC power supply AND Battery from the Module before replacing components to avoid any damage to the components or the Module.**

2.   **If a Reader Expansion board is fitted to the IFDAM, it will need to be removed to perform the chip replacement described in this manual. The Module must be completely powered down as described in Note 1, before the Reader Expansion board is removed or re-fitted.**

3.   **These installations must be performed by qualified personnel. EPROM chips are sensitive to static electricity. Avoid touching the pins of these devices.   Always take precautions to reduce the chances of electrostatic discharge (ESD) harming the components.**
        Touching a nearby grounded metal surface before touching a component drains static electricity, reducing the likelihood of ESD damage.

ADDITIONAL INFORMATION

This Installation Manual should be read in conjunction with the updated Intelligent 4 Door Access Module Installation Manual, V2.0 or later. This update provides information on the configuration and operational differences when using the IFDAM in an Integriti system.

Removing and Inserting the Dual In-Line (DIL) EPROM chip U3.

DIL chips should be removed and inserted with appropriate IC extraction and insertion tools similar to the examples shown. Follow the instructions supplied with the tool.

If these tools are not available, a small Flat Blade Screwdriver may be used with care.

1)   Disconnect Power from the IFDAM. Both AC and Battery must be disconnected.

2)   If a Reader Expansion board is fitted, carefully remove it from the motherboard.

3)   Locate the EPROM (U3) on the IFFAM PCB. *See diagram below.*

4)   If using an IC extraction tool, grip the EPROM with the tool then gently loosen and remove the EPROM from the socket.
   OR

4 a)   If using a small Flat Blade Screwdriver, insert the blade in the centre of the small gap between the IC socket and the Integrated Circuit as shown.
      WARNING: Take special care NOT to insert the Screwdriver under the IC socket by mistake. Take care not to touch any part of the PCB with your screwdriver. The tracks are quite delicate and failures due to damaged PCB tracks are not covered by warranty.

4 b)   Twist Screwdriver gently until IC Pins are visible on both sides.

4 c)   Insert the blade of the Screwdriver in the same location on the opposite end of the IC and repeat Step 2.

4 d)   Repeat steps 2 and 3 if necessary to completely loosen the chip from the socket, then once all Pins are fully visible, including all 4 corners, carefully remove the old chip.
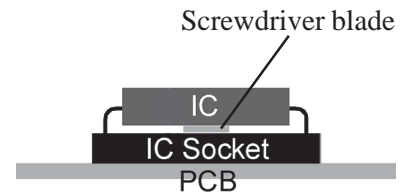
5)   Gently position the new chip on the IC socket and check orientation.

6)   Check that all pins are straight and are located directly over their respective receptacles before applying gentle pressure to insert the chip into the socket.

7)   Refit the Reader Expander board if necessary.
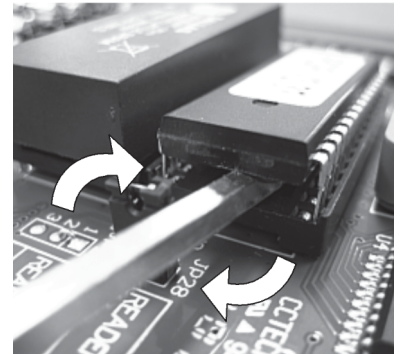
8)   Select the mode of operation and default the memory.
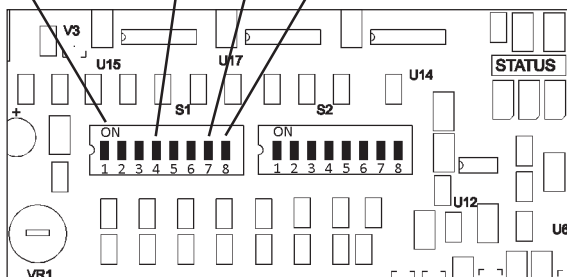   For **Integriti Mode** (IFDAM V5 or later):   Set DIPswitch S1, **Switches 4 and 8 to ON.** *See diagram below.*
      For **Concept 4000 Mode**:   Set DIPswitch S1, **Switches 7 and 8 to ON.** *See diagram below.*
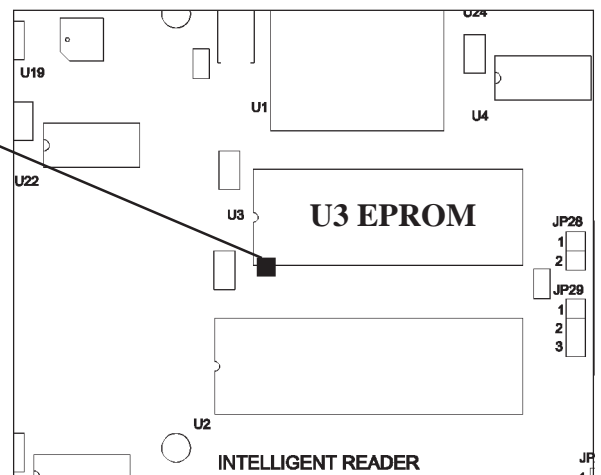
9)   Reconnect the AC input and the Battery.

10)   Wait 5 Seconds, then Set DIPswitch S1, **Switches 7 (if ON) and 8 back to OFF.**
      DO NOT change the setting of Switch 4. This switch sets Concept (OFF) or Integriti (ON) mode.

Screwdriver blade

Sections of the IFDAM PCB