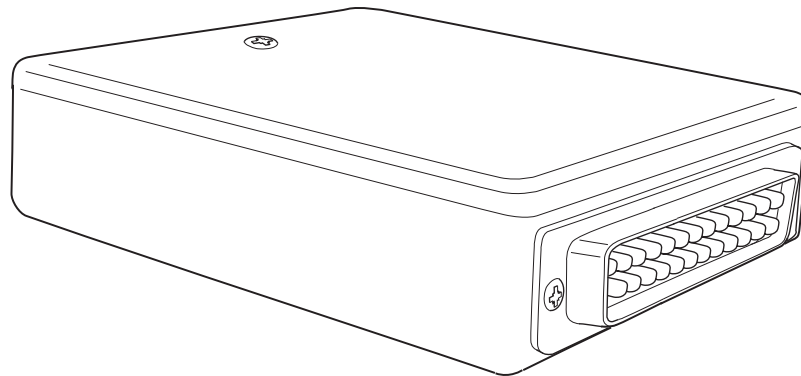


CC03

Owners Operating & Installation Guide



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Permission of the publisher.

Important Safeguards

Read Instructions	All the safety and operating instructions should be read before the unit is operated.
Retain instructions	The safety and operating instructions should be retained for future reference.
Heed warnings	All warnings on the unit and in the operating instructions should be adhered to.
Follow instructions	All operating and user instructions should be followed.
Cleaning	Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
Attachments	Do not use attachments not recommended by the product manufacturer as they may cause hazards.
Water and Moisture	Do not use this unit near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or any area which is classified as a wet location.
Accessories 	Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket or mount recommended by the manufacturer, or sold with the product. Any mounting of the unit should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
Ventilation	Openings in the enclosure are provided for ventilation and to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. This unit should not be placed in a built-in installation unless proper ventilation is provided.
Power Sources	This unit should be operated only from the type of power source indicated on the manufacturer's label. If you are not sure of the type of the power supply you plan to use consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to operating instructions.

Grounding or Polarization	<p>This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.</p> <p>Alternately this unit may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.</p>
Power-Cord Protection	<p>Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.</p>
Overloading	<p>Do not overload outlets and extension cords as this can result in a fire or electric shock.</p>
Object and Liquid Entry	<p>Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.</p>
Servicing	<p>Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.</p>
Damage Requiring Service	<p>Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:</p> <ul style="list-style-type: none">(a)When the power-supply cord or plug is damaged.(b)If liquid has been spilled, or objects have fallen into the unit.(c)If the unit has been exposed to rain or water.(d)If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.(e)If the unit has been dropped or the cabinet has been damaged.(f)When the unit exhibits a distinct change in performance this indicates a need for service.
Replacement Parts	<p>When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer. A replacement lithium battery is available from Dedicated Micros Ltd.</p>
Safety Check	<p>Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.</p>

Coax Grounding If an outside cable system is connected to the unit, be sure the cable system is grounded, U.S.A. models only. Section 810 of the National Electrical Code. ANS/NFPA No. 70 1981, provide information with respect to proper grounding of the mount/supporting structure. The grounding of the coax a discharge unit, the size of grounding conductors location of discharge unit. The wires and the connection of ground wires.

UNPACKING The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

WARNING



TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of this equipment that there are dangerous voltages within the enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Regulatory Notes

FCC AND DOC INFORMATION

(U.S.A. and Canadian Models Only)

WARNING

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.

If necessary, the user should consult the dealer or an experienced radio/television technician for corrective action. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC20402, Stock No. 004-000-00345-4.

This reminder is provided to call the CATV system installer's attention to Art. 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CE Mark

This product is marked with the CE symbol and indicates compliance with the European Community EMC directive 89/336/EEC.

This mark indicates that this product meets the following technical standards.

- * EN 55022 1987 - "Limits and Methods of Measurement of Radio Interference Characteristics of information Technology Equipment".
 - * BSEN 50082-1 - "Electromagnetic compatibility - Generic immunity standard Part 1: Residential, commercial and light industry".
 - * IEC 801-2 1984, IEC 801-2 1991 - "Electromagnetic compatibility for industrial process measurement and control equipment Part 2: Electrostatic discharge requirements".
 - * IEC 801-3 1984 - "Electromagnetic compatibility for industrial-process measurement and control equipment Part 3: Radiated electromagnetic field requirements".
 - * IEC 801-4 1988 - "Electromagnetic compatibility for industrial-process measurement and control equipment Part 4: Electrical fast transient/burst requirements".
- A "Declaration of Conformity" in accordance with the above standards has been made and is reached at: Dedicated Micros Ltd., Pendlebury, Manchester, England.

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System Setup

The CC03 is the e-support module used in conjunction with Unicord Digital Multiplexers. The purpose of this manual is to detail the integration of the CC03 module and MPC keyboards into a system utilising Unicords and Dedicated Micros' Junction Boxes (Product PIN Number DM\CJ01). A System Configuration is detailed below.

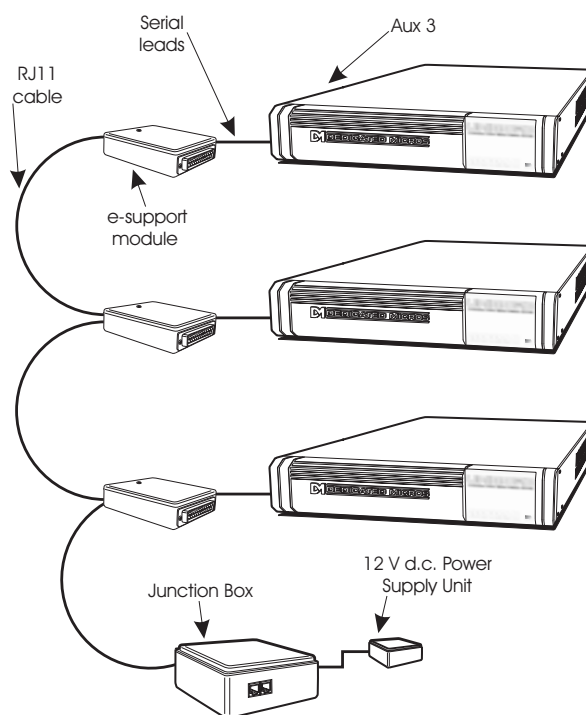
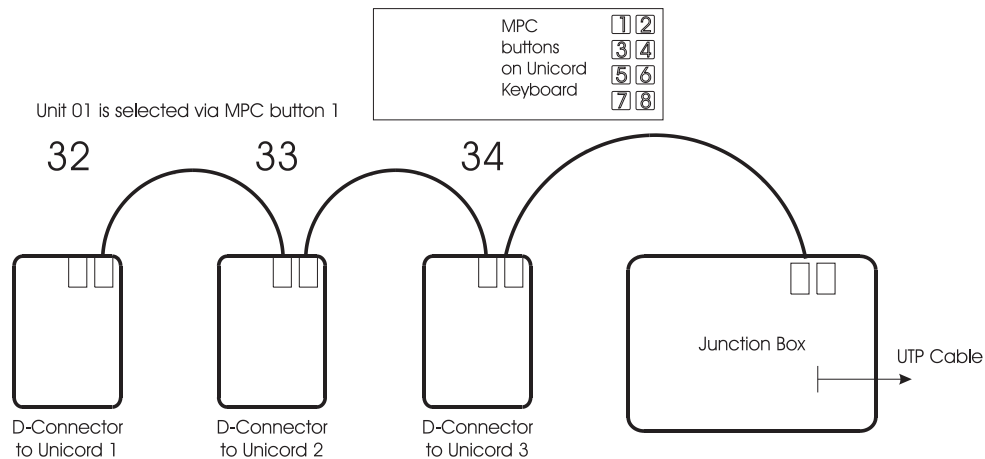


Figure i. System Configuration

The remainder of this chapter will detail the steps to be executed to set up the above configuration.

- 1). Each Unicord in the installation must have its Aux 3 port set to MCI, via the setup command `AUX = MCI` in order for the CC03 adapter and MPC keyboard to operate.
- 2). Each e-support module has address links to identify unicords 1, 2 & 3.
- 3). The pre-made serial leads supplied fit between each adapter and Aux 3 on the Unicord. Each lead is connected the same.

4). Using the short RJ11 terminating leads connect the three adapters together as shown on figure ii below. The third adapter connects into the Junction Box. (Through either of the MMJ



connector ports).

Figure ii. Connecting the e-support adapters and the junction box

5). In order to power the e-support adapters, the 9 V d.c. power supply unit (P.S.U.) must be connected into P1 on the junction box. This connection is detailed in figure iii.

When power is supplied, the red LED in each e-support module will be illuminated. If it is not, this indicates an error in connectivity.

The UTP Grade 5 twisted pair cable, used to interconnect remote keyboards should also be connected to the junction box. 1 pair (blue) is required. This connects to c-bus data 'B' and c-bus data 'A'. Dedicated Micros suggest Blue/White 'A' White/Blue 'B'.

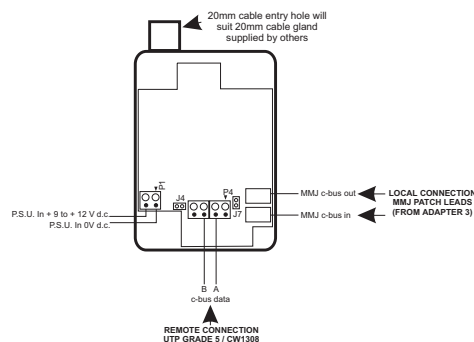


Figure iii. Supplying power to the junction box

6). The UTP Grade 5 twisted pair cable is run out and terminated into a second junction box, sited at the remote keyboard location. When this is completed, the first keyboard is connected into the c-bus out on the junction box, using the standard MMJ leads provided with the keyboard. These connections are shown in figure iv.

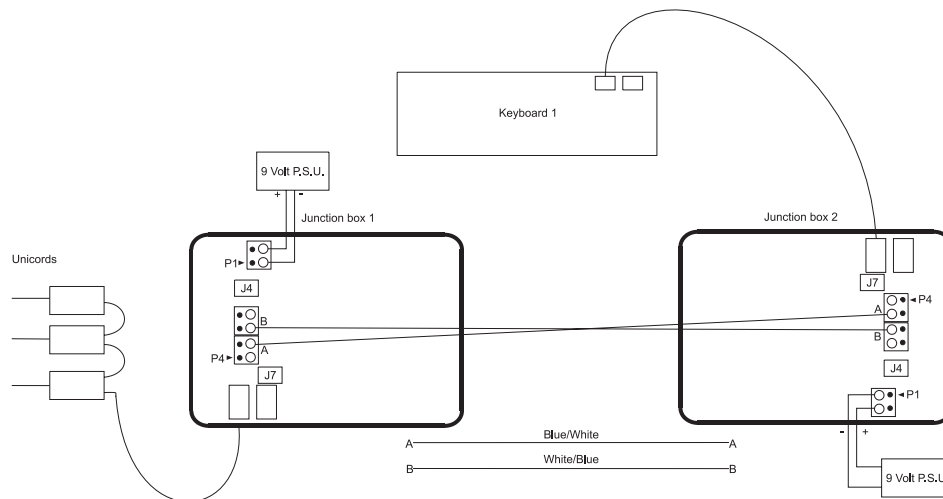


Figure iv. Connecting junction boxes 1 and 2

7). Using the second 9 V P.S.U., cut off the mini din end and connect + (white) into junction box P1 pin 2 and 0V d.c. into P1 pin 1. The arrowhead mark on the PCB denotes pin 1. This supplies power through the RJ11 cable to keyboard 1.

8). If a second keyboard is employed, then repeat the same junction box to junction box connection, as shown in figure v, overleaf.

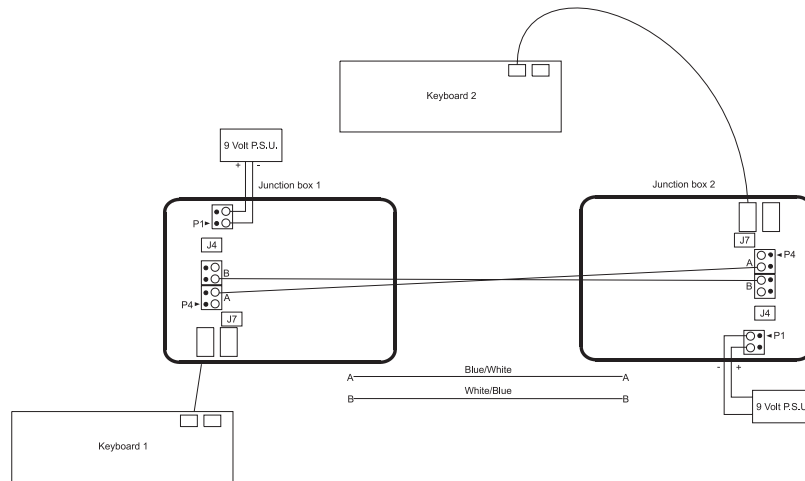


Figure v. Connecting junction boxes 2 and 3

Notes

In this example, the c-bus termination link should be set on the first CCo3 adapter (link J4) and last keyboard on the cable network.

Operation

Again, for ease of use, operation instructions are given in numerical stages.

- 1). Supply power to the system.
- 2). On keyboard 1, press and hold the F1 key. Whilst maintaining this keypress, disconnect and then reconnect the RJ11 lead from the keyboard. Check that the LED on the CAM1 key is flashing, if it is not, press the CAM1 key. Release the F1 key.
- 3). Repeat this process with the second keyboard, but this time check that the LED on the CAM2 key is flashing, if it is not, press the CAM2 key.

The eight MPC buttons on each keyboard select the Unicords. MPC 1 controls Unicord 1, MPC 2 controls Unicord 2 MPC 3 controls Unicord 3.

The same Unicord can not be controlled by two keyboards simultaneously

A solid LED on the MPC switches denotes connection, whereas a flashing LED denotes no connection. If no connection is indicated, it indicates either that the other keyboard is logged on or a communication problem exists.

If one keyboard is logged on but no keypresses are registered for approximately five seconds, then another keyboard can select the Unicord, again this will be denoted by a solid light on the controlling keyboard and a flashing light on the keyboard which has just lost control.

Returns Procedure

In the event of difficulty

Dedicated Micros technology is reliable and faults are rare. Most user problems are concerned with installation and set up. If you are in difficulty first approach your dealer or distributor. Dedicated Micros operates a Technical Support Group where most technical problems can be solved over the telephone, however it is important that this manual has been followed before calling the Technical Support Group.

The following are the telephone numbers for all Dedicated Micros Technical Support Departments:

U.K.	Int +(44) 161 727 3241
Belgium	Int +(32) 1640 1228
U.S.A	Int +(703) 904 7738 or (800) UNIPLEX
Asia	Int (65) 741 0138
Australia	Int +(612) 9482 1857

Note : This manual must be available when contacting Dedicated Micros as reference will be made to it.

If, for what ever reason, this is not possible, the unit can be returned directly to a Dedicated Micros Repairs Department. In this event please follow the returns procedure as detailed below to avoid any delay.

Photocopy the EQUIPMENT RETURN ADVICE. Contact the Customer Services Department to obtain a returns number.

The following information must be available to give to the Customer Services Department when requesting a returns number.

- * Model type
- * Serial number
- * Full Account/Invoice address or Return Address if different
- * Contact name
- * Fax number and Telephone number
- * Customer order number - for repair cost not exceeding £100
- * Full description of the fault
- * Previous returns number(s) (if applicable)

If the unit is rack mounted, the rack mount kit must be removed before the unit is packed. Wrap the unit in the original polythene bag. Fit preformed end pieces at either side of the unit.

If the unit is not returned in it's original packing, Dedicated Micros Repair Department will automatically re-box the unit, and there will be a charge of £11.75 inc. VAT.

Mark the return number, obtained from the Customer Services Department, clearly on the outside of the box. Return the unit to the address on the rear cover of this manual, a completed copy of the EQUIPMENT RETURN ADVICE must be sent with the unit.

If the unit crosses a national border, enter the Airway Bill number on the copy of the EQUIPMENT RETURN ADVICE and fax to dedicated Micros for the attention of the Despatch Department. This will avoid any delays in returning the unit after it has been repaired.

Notes:

Dedicated Micros tries to maintain a fast turnaround procedure for repairing equipment, incomplete or inaccurate documentation may result in delay.

If the unit is not under warranty a charge will be made for the repair.

If the unit has it's warranty void, due to misuse or damage, the Repairs Department will contact the account customer to advise the cost.

Upon examination of the unit if the repair cost is likely to exceed £100, the Repairs Department will contact the account customer for authorisation before work is undertaken.

Repairs not exceeding £100 will automatically be carried out and invoiced on the official order number stated by the account customer on the EQUIPMENT RETURN ADVICE.

EQUIPMENT RETURN ADVICE	
Company Name:	
Contact Name:	
Invoice Address:	
Tel. No.:	
Fax No.:	
Model/Type of Equipment Returned:	Serial No.:
Returns Number:	Official Order Number:
Master Airway Bill Number:	
Previous Returns Number: (if applicable)	
Details of Reported Fault:	
Returns Address for Unit:	



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