







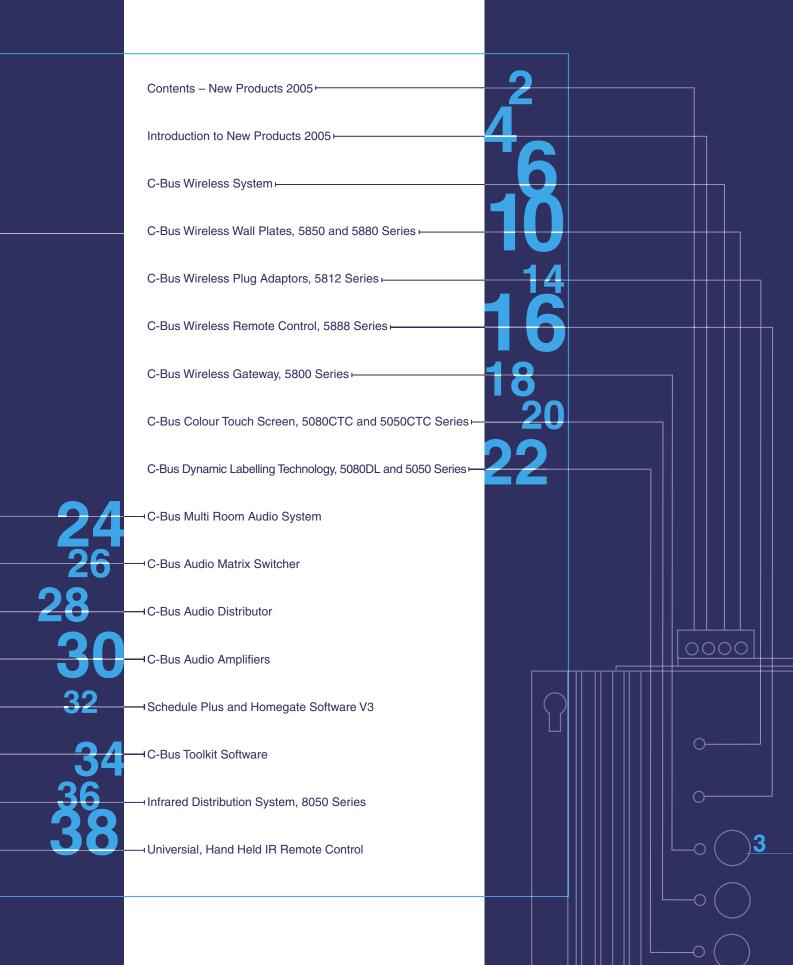




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C-Bus Wireless System

A retrofitable solution for Home Automation.



C-Bus Wireless Wall Plates

Allows existing 240V wall switches to be replaced with a C-Bus Wireless technology.



C-Bus Wireless Plug-AdaptorsAllows devices plugged into 240V General Purpose Outlets to be controlled using C-Bus Wireless technology.



C-Bus Wireless Remote

Allows control of C-Bus Wireless Wall Plates and Plug Adaptor units remotely.



C-Bus Wireless Gateway

Allows a C-Bus Wireless network to be linked to a C-Bus Cat-5 wired network.



C-Bus Colour Touch Screen

Provides an elegant wall mounted interface to a C-Bus system.



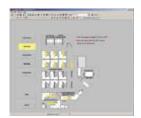




Dynamic Labelling Technology $^{\mathsf{TM}}$ An elegant solution to overcome switch labelling.

C-Bus Multi-Room Audio System Listen to and conveniently control music anywhere in the home.





C-Bus Schedule Plus and HomeGate Software V.3

Including the new C-Bus Logic Engine. Includes a number of major new features, including a fully featured programmable logic engine.



C-Bus Toolkit Software

Includes an overhauled version of the C-Bus installation software with enhanced features and usability.





IR Distribution System

A flexible, cost effective multi-zone Infrared Distribution System.

Universal IR Remote Control

Allows users to control C-Bus and a wide range of other electronic devices that are equipped with an infrared.



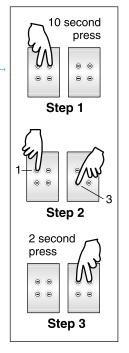
The C-Bus Wireless product range incorporates a family of C-Bus Radio Frequency (RF) devices, including Wall Plates, Plug Adaptors, Remote Control and a Gateway to Cat-5 Wired C-Bus units.

C-Bus Wireless Wall Plates are designed to easily replace standard, 240V wall switches. They incorporate patented Clipsal technology and are two wires devices requiring no Neutral (240V a.c. Active and Load connections only).

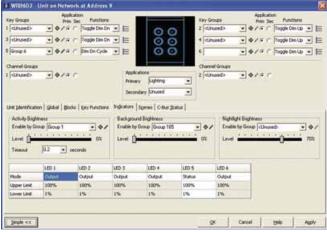
All C-Bus Wireless units incorporate Clipsal C-Bus' unique Learn Mode functions for programming devices. Wall Plates, Plug Adaptors and the Gateway unit can also be programmed via the C-Bus Toolkit software. Multiple C-Bus Wireless units can be linked into a common network using Learn Mode or the C-Bus Toolkit software.

Associations can be created between buttons on multiple units, so that a button press on one unit will operate a button on another (and the connected lights or other electrical devices).

C-Bus Wireless units include scene capabilities, which allow the user to perform a series of actions across multiple outputs by pressing a single button. For example, on arrival home a home owner could use a scene to switch on lights in the hallway, kitchen and lounge, and also switch on a heater.

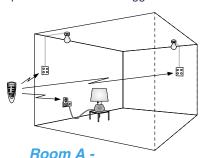


Grouping C-Bus Wireless Units via Learn Mode

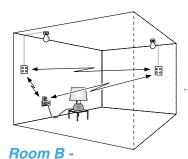


Programming a C-Bus Wireless Unit via C-Bus Toolkit Software

The diagrams below show two of the many possible basic C-Bus Wireless unit installations. Room A uses stand-alone units, which can be switched via the Wireless Remote Control. Room B uses networked units where buttons on one unit can operate other units or trigger scenes.



Stand Alone C-Bus Wireless Units



Networked C-Bus Wireless Units



Basic Operation

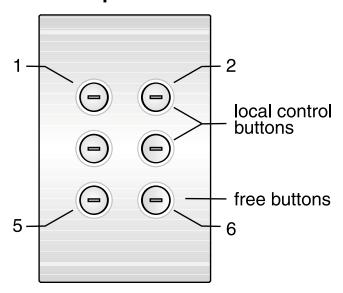
Buttons on a Wireless Wall Plate or Plug Adaptor are organised in pairs that control the output channels (local control buttons). Remaining pairs (free buttons) are used to control outputs on other units when multiple C-Bus Wireless units are configured as part of a network. For example, the figure below shows a 6 button, 2 channel Saturn Wireless Dimmer unit. Its buttons perform the following functions:

- Buttons 1 and 2 control the first channel. (A quick press on either button toggles the channel on or off. A long press on button 1 or 2 dims down or up respectively).
- Buttons 3 and 4 control the second channel.
- Buttons 5 and 6 are unused when the unit is used as a stand-alone unit. They may be used to control outputs on other units when part of a multi-unit network.

When a C-Bus Wireless Wall Plate or Plug Adaptor unit is first installed, it functions as a stand-alone unit. In this basic default mode, the unit functions as a dimmer or switch, depending on the model.

C-Bus Wireless Plug Adaptors have one output channel (a single, 240V a.c. socket) and two buttons. Wall plate units are available in one or two output channel versions, with two, four, six or eight buttons (eight button, Neo only). Each channel controls one or more lights or other electrical devices connected to its output.

Two output channels



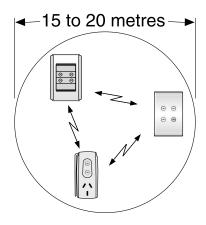


C-Bus Wireless Networks

To experience the full capabilities of wireless operation, C-Bus Wireless units must be linked together to form a network.

To communicate with each other, units within the same network should be located within 15 to 20 meters of each other. This distance depends on building materials used.

Up to 30 units may be connected within the same C-Bus Wireless network.



C-Bus Wireless Network Security

C-Bus Wireless units can optionally use 128 bit-encrypted messages to communicate with each other. This results in a highly secure network.

Nearby C-Bus Wireless Networks

It is possible to have several separate networks present alongside each other without interfering, as each separate C-Bus Wireless network has an automatically assigned, unique 'House Code'.

C-Bus Wireless Modes of Operation

C-Bus Wireless units have five major modes of operation.

Mode 1

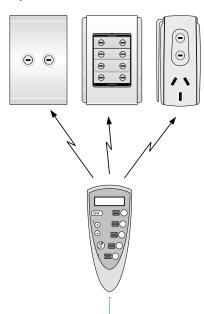
Stand-Alone Mode

In this mode, C-Bus Wireless Wall Plates and Plug Adaptors acts as stand-alone dimmers or switches and make no use of the inbuilt wireless capabilities. No setup is required for this mode, Plug Adaptors simply plug into the mains, and Wireless Wall Plates are installed by a licensed electrician in place of existing wall switches. The buttons on the units control the local dimming or switching channels of the unit only.

Mode 2

Simple Remote Controlled Mode

In this mode, a C-Bus Wireless Wall Plate acts as a standalone dimmer or switch and a C-Bus Wireless Remote Control operates the Wall Plate from a distance. This mode is simple to set up and is suitable for small installations where networking is not needed. C-Bus Wireless Wall Plate or Plug Adaptor units are controlled using a C-Bus Wireless Remote: In this mode, the buttons on the Wireless Wall Plate control the local dimming or switching channels of the unit, and the Remote Control is linked to buttons on a Wall Plate using a Learn Mode operation. No PC is required.

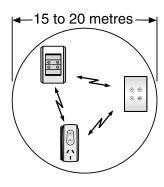




Mode 3

Networked Mode

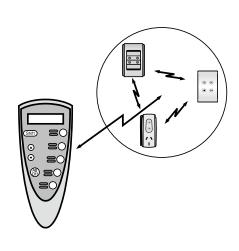
In this mode, a C-Bus Wireless Wall Plate acts as a dimmer or switch and multiple C-Bus Wireless units can be linked to each other with the C-Bus Wireless technology. This mode is simple to setup, and is suitable for more complex installations. In this mode, local control buttons control the dimming or switch channel of the unit, and may also control other C-Bus Wireless units. Free buttons can control the dimmer or switch channels of other units via a C-Bus Wireless network established using Learn Mode operations. The operation of buttons is set using Learn Mode operations or using the C-Bus Toolkit Software.



Mode 4

Networked with Remote

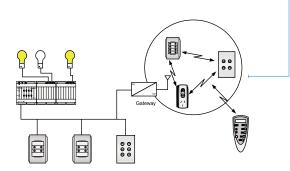
In this mode, a C-Bus Wireless Wall Plate acts as a dimmer or switch and multiple C-Bus Wireless units can be linked to each other with the C-Bus Wireless technology. Local control buttons control the dimming or switch channel of the unit, and may also control other C-Bus Wireless units. Free buttons can control the dimmer or switch channels of other units via a C-Bus Wireless network established using Learn Mode operations or C-Bus Toolkit software. Buttons on the Wireless Remote are linked to Wall Plate and Plug Adaptor buttons as desired.



Mode 5

Networked mode in combination with Cat-5 wired C-Bus units

The C-Bus Wireless Gateway is used to link a C-Bus Wireless network to a C-Bus Cat-5 wired network. It is functionally equivalent to a C-Bus Network Bridge. Using the Gateway, C-Bus Wireless and Cat-5 networks can communicate and interact with each other. Both Wireless and Cat-5 Network's use the same command structure, and are 100% compatible.





C-Bus

Wireless Wall Plates

5850 and 5880 Series

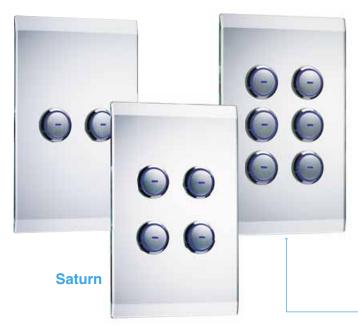
C-Bus Wireless Wall Plates allow existing, standard 240V a.c. wall switches to be replaced with a wall plate containing C-Bus Wireless technology. C-Bus Wireless Wall Plates are able to communicate with other C-Bus Wireless devices using Radio Frequency wireless messaging and form a C-Bus Wireless Network.

The Wall Plates are 2-wire devices (240V a.c. active and load), with no neutral connection required. This enables the wall plates to be installed with minimal changes to the existing mains wiring at a wall switch.

The control buttons on the Wall Plates are able to control a load connected to the Wall Plate directly and can also control loads connected to other C-Bus Wireless devices. Each control button can be programmed to function as an on/off switch, a dimmer, or can issue a scene, as well as a number of other options.



- Replaces standard, existing wall switches.
- 2-Wire connection (no Neutral required).
- · Communicates directly with other C-Bus Wireless devices.
- Can be controlled via C-Bus Cat-5 Wired Input Units (via a Gateway Unit), such as Touch Screens.
- Unique C-Bus Wireless House Code.
- 128-encrypted communications.
- Programmable via C-Bus Learn features or via C-Bus Toolkit software.
- Communicates directly with other C-Bus Wireless devices.
- 1 channel and 2 channel versions.
- Leading Edge and Trailing Edge Dimming Units, 1 channel 500VA and 2 Channel 250VA per channel.
- Relay unit, 1 channel 8A (fluorescent) rating and 2 Channel
 4A (fluorescent) per channel.
- Available in Neo and Saturn style.





Electrical Specifications	2-Wire Leading Edge Dimmer Units – 1 & 2 Channel	
Supply Voltage	240V a.c. @ 50Hz	
Min. Load Per Channel	25W Lamp or 0.25A Fan Motor	
Max. Load Per Channel	500W, 2A (Single Channel Unit) 250W, 1A (Two Channel Unit)	
Load Rating Incandescent / HalogenIron Core LV Lighting Fan Motors	2A 2A 2A	
Off State Power Consumption	0.5W	
Off State Leakage Current	12mA Channel 1, 5mA Channel 2	
Electrical Specifications	2-Wire Trailing Edge Dimmer Units – 1 & 2 Channel	
Supply Voltage	240V a.c. @ 50Hz	
Min. Load Per Channel	25W Lamp	
Max. Load Per Channel	500W, 2A (Single Channel Unit) 250W, 1A (Two Channel Unit)	
Load Rating Incandescent / Halogen Electronic LV Lighting	2A 2A	
Off State Power Consumption	0.5W	
Off State Leakage Current	15mA Channel 1, 10mA Channel 2	
Electrical Specifications	2-Wire Switch Units – 1 & 2 Channel	
Supply Voltage	240V a.c. @ 50Hz	
Min. Load Per Channel	25W, 0.1A	
Max. Total Load	2000W, 8A	
Load Rating Incandescent / Halogen Fluorescent ¹ Iron Core LV Lighting Electronic LV Lighting Fan Motors	8A 4A 8A 8A 2A	
Off State Power Consumption	n 0.25W	
Off State Leakage Current	10mA Channel 1, 0mA Channel 2	

¹ Fluorescent luminaire requires Power Factor Correction (PFC) capacitor fitted in order for switch unit to function correctly.



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C-BusWireless Wall Plates

5850 and 5880 Series

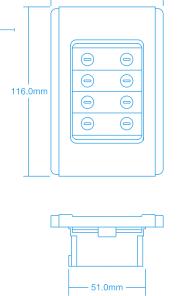
Product Specifications

RF C-Bus Specifications		
RF Frequency	433.92MHz	
Transmitting Power	1mW	
Maximum Range	50m (Typical 15m - 20m)	
Control Functions	Load Switching, Dimming (LE / TE only), Timer, Relay	
Status Indicator	Orange	
Warm-Up Time	5 Seconds	

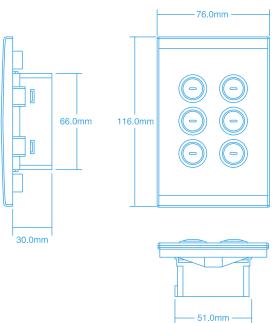
Mechanical Specifications	Neo	Saturn	
Dimensions (L x W x H)	116 x 76 x 38.5mm	116 x 76 x 41mm	
Mounting Centres	84	mm	
Weight	133g	186g	

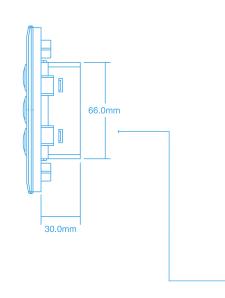
Environmental Specifications	
Operating Temp. Range	0 – 40 <u>°</u> C
Operating Humidity Range	10 – 95% R.H.

Neo 76.0mm -



Saturn







C-Bus Wireless Wall Plate Dimmer Units					
Channels	Туре	Current	Part Number		
Neo			2 Button	4 Button	8 Button
1	Leading Edge	2A	5852D2L1AA	5854D2L1AA	5858D2L1AA
2	Leading Edge	1A	_	5854D1L2AA	5858D1L2AA
1	Trailing Edge	2A	5852D2T1AA	5854D2T1AA	5858D2T1AA
2	Trailing Edge	1A	_	5854D1T2AA	5858D1T2AA
1	Leading Edge	2A	E5852D2L1TA	E5854D2L1TA	E5858D2L1TA
2	Leading Edge	1A	_	E5854D1L2TA	E5858D1L2TA
1	Trailing Edge	2A	E5852D2T1TA	E5854D2T1TA	E5858D2T1TA
2	Trailing Edge	1A	_	E5854D1T2TA	E5858D1T2TA
Saturn			2 Button	4 Button	6 Button
1	Leading Edge	2A	5882D2L1AA	5884D2L1AA	5886D2L1AA
2	Leading Edge	1A	_	5884D1L2AA	5886D1L2AA
1	Trailing Edge	2A	5882D2T1AA	5884D2T1AA	5886D2T1AA
2	Trailing Edge	1A	_	5884D1T2AA	5886D1T2AA
1	Leading Edge	2A	E5882D2L1TA	E5884D2L1TA	E5886D2L1TA
2	Leading Edge	1A	_	E5884D1L2TA	E5886D1L2TA
1	Trailing Edge	2A	E5882D2T1TA	E5884D2T1TA	E5886D2T1TA
2	Trailing Edge	1A	_	E5884D1T2TA	E5886D1T2TA

C-Bus Wireless Wall Plate Relay Units				
Channels	Current	Part Number		
Neo		2 Button	4 Button	8 Button
1	8A	5852R8F1AA	5854R8F1AA	5858R8F1AA
2	4A	_	5854R4F2AA	5858R4F2AA
1	8A	E5852R8F1TA	E5854R8F1TA	E5858R8F1TA
2	4A	– E5854R4F2TA E		E5858R4F2TA
Saturn		2 Button	4 Button	6 Button
1	8A	5882R8F1AA	5884R8F1AA	5886R8F1AA
2	4A	_	5884R4F2AA	5886R4F2AA
1	8A	E5882R8F1TA	E5884R8F1TA	E5886R8F1TA
2	4A	_	E5884R4F2TA	E5886R4F2TA





C-Bus

Wireless Plug Adaptors 5812 Series

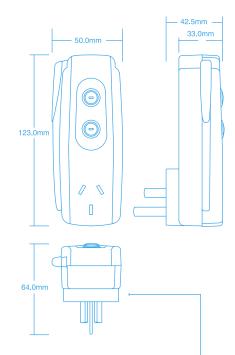
C-Bus Wireless Plug Adaptors allow devices normally plugged into 240V a.c. General Purpose Outlets (for example, lounge or bedside lamps) to be controlled using C-Bus Wireless technology. C-Bus Wireless Plug Adaptors are able to communicate with other C-Bus Wireless devices (such as Wireless Wall Plates) using Radio Frequency wireless messaging and form a C-Bus Wireless Network.

C-Bus Wireless Plug Adaptors plug into existing Power Outlets, and the device to be controlled via C-Bus Wireless then piggybacks into the Plug Adaptor. No additions or alterations to existing wiring are required.

C-Bus Wireless Plug Adaptors are available in Leading Edge Dimming and Trailing Edge Dimming Units, as well as a Relay output version.

- Plugs into a Standard Australian General Purpose electrical outlet.
- Communicates directly with other C-Bus Wireless devices.
- Separate Leading Edge and Trailing Edge Dimming units available.
- Relay output version available.
- Integral, easily accessible control/override/programming buttons.
- Can be controlled via C-Bus Cat-5 wired Input units (via a Gateway Unit), such as Touch Screens.
- Unique C-Bus Wireless House Code.
- 128-encrypted communications.
- Programmable via C-Bus Learn features or via C-Bus Toolkit software.







Electrical Specifications	Plug Adaptor Dimmer Unit (Leading Edge)
Supply Voltage	240V a.c. @ 50Hz
Max. Total Load	750W, 3A
Load Rating	
Incandescent / Halogen	3A
Iron Core LV Lighting	3A
Electrical Specifications	Plug Adaptor Dimmer Unit (Trailing Edge)
Supply Voltage	240V a.c. @ 50Hz
Max. Total Load	500W, 2A
Load Rating	
Incandescent / Halogen	2A
Electronic LV Lighting	2A
Electrical Specifications	Plug Adaptor Switch Unit
Electrical Specifications Supply Voltage	Plug Adaptor Switch Unit 240V a.c. @ 50Hz
·	9 :
Supply Voltage	240V a.c. @ 50Hz
Supply Voltage Max. Total Load	240V a.c. @ 50Hz
Supply Voltage Max. Total Load Load Rating	240V a.c. @ 50Hz 2400W, 10A
Supply Voltage Max. Total Load Load Rating Incandescent / Halogen	240V a.c. @ 50Hz 2400W, 10A 10A
Supply Voltage Max. Total Load Load Rating Incandescent / Halogen Fluorescent	240V a.c. @ 50Hz 2400W, 10A 10A 4A
Supply Voltage Max. Total Load Load Rating Incandescent / Halogen Fluorescent Iron Core LV Lighting	240V a.c. @ 50Hz 2400W, 10A 10A 4A 10A
Supply Voltage Max. Total Load Load Rating Incandescent / Halogen Fluorescent Iron Core LV Lighting Electronic LV Lighting	240V a.c. @ 50Hz 2400W, 10A 10A 4A 10A 10A
Supply Voltage Max. Total Load Load Rating Incandescent / Halogen Fluorescent Iron Core LV Lighting Electronic LV Lighting Fan Motors	240V a.c. @ 50Hz 2400W, 10A 10A 4A 10A 10A

Catalogue Number	ogue Number Description	
5812D3L1AA	Plug Adaptor Dimmer Unit (Leading Edge)	
5812D2T1AA	Plug Adaptor Dimmer Unit (Trailing Edge)	
5812R10F1AA	Plug Adaptor Switch Unit	





C-Bus Wireless Remote Control 5888 Series

The C-Bus Wireless Remote Control allows a user to control buttons on C-Bus Wireless Wall Plate and Plug Adaptor units remotely. It utilises radio frequency (RF) communication therefore, unlike an infrared (IR) remote, the user does not need to point it directly at the unit to be controlled.

Up to 10 separate Wall Plate or Plug Adaptor buttons can be controlled by the Remote Control unit. These can be on various units on different networks. A single button on a Wall Plate or Plug Adaptor unit can be controlled by up to two remote controls.

The Remote Control buttons are organised in two banks of five buttons. Banks are alternately selected by pressing the Shift button.

Up and Down buttons allow you to dim the level associated with the last button selected (on dimmer units). An 'All Off' button provides a convenient way to switch off all buttons that have been associated with the remote control unit.



Features

- Walk around hand held unit.
- Five programmable function buttons, with Shift button providing five more programmable functions.
- C-Bus Wireless Groups and Scenes can be controlled from the remote.
- Up, down, off and shift buttons.
- Blue LED Backlight.
- LCD display.
- Button labelling.
- Transmit Indicator.

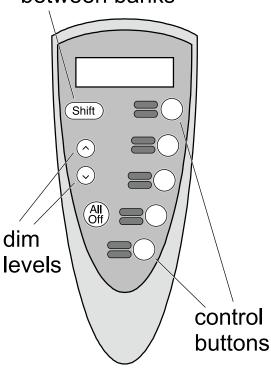
Remotes.

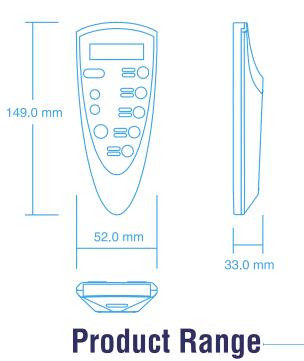
- 20-25m range (typical).Programming / learn switch.
- A single C-Bus Wireless unit can be controlled by 1 or 2
- A key on a Remote can be linked to several different C-Bus Wireless units.
- Different buttons on the same Remote can be linked to different C-Bus Wireless units.



Electrical Specifications		
RF Frequency	433.92 MHz	
Transmitting Power	10mW	
Typical Range	20-25m	
Maximum Range	70m (free air)	
Backlighting	Blue LEDs	
Display	LCD	
Batteries	2 x AAA	
Mechanical Specifications		
Dimensions (L x W x H)	149 x 52 x 26mm	
Weight	87g (including batteries)	

Shift key alternates between banks





Catalogue Number	Description
5888TXBA	C-Bus Wireless Hand Held Remote





C-Bus Wireless Gateway 5800 Series

The C-Bus Wireless Gateway is used to link a C-Bus Wireless network to a C-Bus Cat-5 Wired network. It is functionally equivalent to a C-Bus Network Bridge. Using the Gateway, C-Bus Wireless and Cat-5 networks can communicate and interact with each other. Both Wireless and Cat-5 Networks use the same command structure.

The Gateway allows:

- Control of a C-Bus Wireless network, via control units on a C-Bus wired network, or from software such as Schedule Plus and HomeGate.
- Control of output units and electrical loads in one network type, from Input Units (such as switches) in the other network type.

Gateway

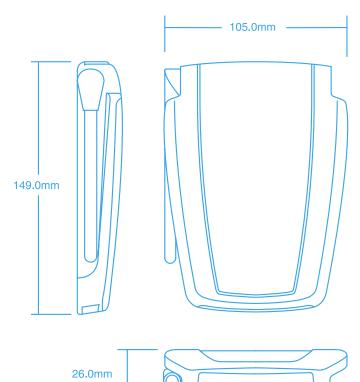
A Gateway links Cat-5 wired and Wireless networks together

- Allows seamless communication between a wired C-Bus network and a C-Bus Wireless Network.
- Desktop or wall mounted.
- A C-Bus Cat-5 cable connected to the wired C-Bus network is plugged into an RJ45 socket at the rear of the Gateway.
- Power for the Gateway is provided by the wired C-Bus network, no additional power source is required.
- The connection to a C-Bus Wireless network is accomplished by a C-Bus Learn Mode operation.
- The connection to a C-Bus Cat-5 wired network requires the use of the C-Bus Toolkit software.
- The Gateway supports routing of messages into and through both wired and wireless networks.
- Messages on each network (such as button presses) can be passed through to the adjacent network.





Electrical Specifications		
Parameter	Description	
C-Bus supply voltage	15 to 36 V d.c., 32 mA	
RF frequency	433.92 MHz	
Transmitting power	1 mW	
Typical range	15 to 20 m	
Maximum range	50 m (open air)	
Operating temperature range	0 to 40 °C	
Operating humidity range	10 to 95% RH	
Mechanical Specifications		
Parameter	Description	
Dimensions (W×H×D)	105 × 149 × 26 mm	
Weight	105 g	
Fixing centres	40 mm	



Catalogue Number	Description
5800WCGA	Wireless Gateway



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C-BusColour Touch screen 5080CTC and 5050CTC Series

C-Bus Colour Touch Screen provides a wall mounted, touch sensitive LCD screen that can display pages of graphical items, such as buttons, sliders and images. These graphical items perform C-Bus related functions when pressed.

The unit also includes a real time clock for automatic scheduling of events based on the time of day, week, month or year. The touch screen allows control via an Infrared hand-held remote control unit.

C-Touch Colour can be completely customised to suit user requirements via the included Windows™ compatible configuration software. The software also includes a Logic Engine module that allows the installer to program logic based (if-then-else) control into the touch screen configuration.

Available in Neo and Saturn Glass style surrounds, the Colour Touch Screen is aesthetically appealing and an extremely functional addition to the comprehensive range of C-Bus products.



Features

- Connects directly to a C-Bus network (no external PC Interface required).
- Control and Monitor devices connected to C-Bus, Ethernet and RS-232 (Custom Ethernet and RS-232 support via the included logic programming language).
- On-board audio supports external speakers microphone.
- Unit programmable via Ethernet.
- Real Time Clock (astronomical).
- 256Mb Compact Flash (upgradeable to 1Gb) factory programmed with Touch Screen firmware.

Software

- GUI based drag and drop configuration software, plus freeform logic programming language.
- Software interface design supports 101 levels of alpha blending.
- Animated buttons with more than 256 animation frames supported.
- Fully customisable graphics including bar graphs, sliders, percentage indicators, images, gauges and clocks with any border and background style.
- Supports web page embedding.
- Supports project theme templates.
- Audio WAV file support.
- Scene Control.
- Event Scheduling support.
- Astronomical Clock Support.
- Irrigation Control.
- Password access control.



Catalogue Number	5080CTC and 5050CTC Series	
Screen Type	LCD active Matrix	
Screen Size	6.4 inch (diagonal)	
Screen resolution	VGA, 640 x 480 pixels	
Pixel Pitch	0.204mm(H) x 0.202mm(V)	
Screen viewing area	130.6(H) mm x 97.0(V) mm	
Touch Overlay type	Resistive membrane	
Viewing Angles:	Horizontal: typical. 70° left and right Vertical: typical. 40° up, 70° down	
Luminance	300cd/ m2	
Backlight	Cold Cathode with Light sensor for automatic backlight level control	
Memory	256MB Compact Flash (upgradeable to 1 GB) factory programmed with panel firmware	
Front Panel	Ethernet 10/100 Port: RJ-45 port (under facia) Speaker (under facia) Infrared receiver	
Rear Connectors	C-Bus RJ-45 connectors, x 2 Ethernet 10/100 Port: RJ-45 port for communication Composite video output via RCA socket (750hm) RS232 via DB 9 connector 2 x USB (type A connectors) for future software support Remote IR input (hardwired via 3.5mm mini-jack) External Speaker/Headphone Connector: 3.5mm mini-jack.	
Enclosure	Moulded Faradex	
Facia	Saturn Style: Glass Neo Style: ABS	
Power	<5A @ 5Vd.c. (Power pack included)	
Dimensions (WHD)	248mm x 175mm x 60mm	

Product Range

Catalogue Number	Description
5080CTC, GF	C-Bus Colour Touch Screen, 6.4 inch screen, Saturn Glass Style, White
5080CTC-6	C-Bus Colour Touch Screen, 6.4 inch screen, Saturn Glass Style, Black
5080CTC-3	C-Bus Colour Touch Screen, 6.4 inch screen, Saturn Glass Style, Cream
5080CTC-7	C-Bus Colour Touch Screen, 6.4 inch screen, Saturn Glass Style, Mid-Brown
5050CTC	C-Bus Colour Touch Screen, 6.4 inch screen, Neo Style, Battleship Grey and Brushed Aluminium*



* Other Colours Available, please contact Clipsal.



C-Bus

Dynamic Labelling Technology™ 5080DL and 5050DL Series

Clipsal's new Dynamic Labelling TechnologyTM has been incorporated in C-Bus Saturn and Neo units allowing C-Bus installers to electronically label switches according to the requirements of the user and easily change this labelling via software, as required.

Dynamic Labelling Technology™ switches incorporate editable LCD text or bitmap labels, plus function indicators such as bar-graphs. The units have eight programmable buttons for C-Bus Group/Scene control over two pages, with a Scroll button to toggle between these pages. The 64 x 128 pixel LCD screen incorporates a backlight. Text, sliders and bitmaps can be defined in the C-Bus Toolkit software and downloaded to the unit via a C-Bus network.



- Editable LCD Labels with Dynamic Graphic Displays called Function Indicators, which can be optionally enabled/disabled.
- LCD labelling for each switch.
- Eight switches for C-Bus group/Scene over two pages (four buttons per page). Square version, three pages.
- Page/scroll button.
- Each can be programmed as on/off, dimming, time or a scene control.
- 64 x 128 pixel screen.
- Up to 8 Languages supported.
- Downloadable bitmaps per group address or Scene.
- Dimmable White LED backlighting for the LCD.
- Dimmable Blue LED on each button.
- Ignore first key press option.
- Fallback to page 1 option.
- Real Time Clock Display.
- Available in Saturn and Neo styles.
- Programmed via C-Bus Toolkit software.
- Nightlight on all keys or just 5th key.
- LCD feedback under Learn Mode.



Catalogue Number	5080DL and 5050DL Series
C-Bus Supply Voltage	15 - 36V d.c.
Current Drawn	22mA
AC Input Impedance	50k @ 1kHz
Max. No. of Units on Network	50 units
Control Functions	Load switching, Dimming, Timing, Scene Control
Warm-Up Time	5 seconds
Storage Temperature Range	-10 - 60°C
Operating Temperature Range	0 - 45°C
Operating Humidity Range	-10 - 95% R.H.
C-Bus Input Terminals	0.2 - 1.5mm² (24-16AWG)





Saturn



Product Range

Catalogue Number	Description	
5085DL, GF	Saturn Glass, rectangular style C-Bus switch, incorporating Dynamic Labelling Technology, 5 buttons, White*, Learn Enabled.	
EA5084DL, GF	Saturn Glass, square style C-Bus switch, incorporating Dynamic Labelling Technology, 4 buttons, White*, Learn Enabled.	
5055DL	Neo, rectangular style C-Bus switch, incorporating Dynamic Labelling Technology, 5 buttons, Battleship Grey and Brushed Aluminum, Learn Enable	
E5054DL	Neo, square style C-Bus switch, incorporating Dynamic Labelling Technology, 4 buttons, Battleship Grey and Brushed Aluminum, Learn Enabled.	



*Also available in black, mid-brown and cream.



C-Bus Multi-Room Audio System

The C-Bus Multi-Room Audio System allows users to listen to and control audio sources from convenient locations around a home. The system is both simple to install and easy to use.

The system has been designed utilising new digital audio distribution technology (developed by Clipsal), in conjunction with Clipsal C-Bus core technology for system communication and integration.

Clipsal's digital audio distribution technology allows for noise and interference free audio reproduction, whilst the C-Bus technology allows the audio products to be seamlessly integrated and used with all existing C-Bus products. For example, volume can all be controlled from the same C-Bus Switch or Touch Screen controlling lighting.

In addition, the system allows any input audio source to be made available in any audio zone. Changes to the input audio source can easily be made by the user from a local C-Bus device at any time, regardless of where the audio source equipment (e.g., CD Player) is physically located. It is compatible with most audio sources; it accommodates standard stereo line level analogue inputs as well as digital audio TOSlink inputs.

Infrared signals from hand held remote controls can be routed through the system by connecting IR targets and emitters. IR commands can also be stored by the system and activated by programmed C-Bus commands.

The C-Bus Multi-Room Audio System allows a number of different system layout options. This flexibility allows for a wide range of customer needs and installation requirements. Two example schematics are shown opposite.

Option A

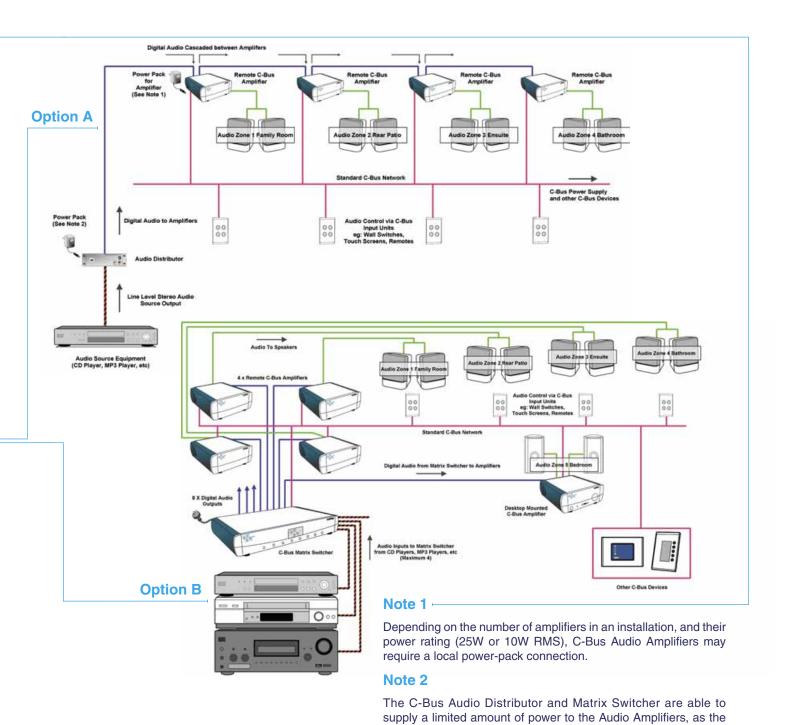
This basic option allows a single audio source to be available to a number of C-Bus Audio Amplifiers and to be controlled from convenient locations around the home (via any combination of C-Bus input devices). This option requires one Cat-5 cable for the Audio distribution, with this cable cascaded between each Audio Amplifier.

Option B

This option allows more flexibility. Multiple audio sources are made available to all audio zones, with all the audio sources selectable on a zone-by-zone basis via C-Bus Input Devices. This option requires a separate (star wired) Cat-5 Audio cable to each Audio Amplifier in a zone.

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system shares power available via the Cat-5 Audio network.

ducts 200



C-BusAudio Matrix Switcher Cat No. 5560884

The Audio Matrix Switcher is a C-Bus unit, which switches four stereo audio inputs to any of the eight available digital audio outputs. These digital outputs are then distributed to C-Bus Audio Amplifiers via Cat-5 data cable. Switching audio sources is achieved via any C-Bus input device or via the control panel on the front of the Matrix Switcher.

- Digital audio distribution technology, for noise free audio reproduction.
- Four stereo analogue audio source inputs.
- Eight digital audio zone outputs (~45m for each star wired output).
- Cat-5 cable connection between Matrix switcher and amplifiers
- Two mono annunciation inputs.
- Voice annunciation of channel changes. (selectable)
- One fibre-optic SPDIF input.(digital audio compatible)
- One custom digital input to allow cascading of units.
- C-Bus infrared output (2 zones) for third party equipment control.
- Reticulated IR support.
- User interface consisting off LCD display and tactile feedback switches.
- C-Bus messages control selection of input/output routing.
- Internal 400mA C-Bus PSU.
- Internal 4A PSU for the amplifiers.
- Configuration setup through either C-Bus or USB.
- Control via C-Bus input devices, such as C-Bus Wall Switches, Touch Screens, etc.





Provisional Specifications	
Design Technology	16-bit Audio Path
Sampling Rates	48kHz
Source Inputs	4 Stereo Line Level Analog 2 Mono all channel inputs 1 Digital Audio 1 TOSlink
Zone Outputs	8 Digital Audio outputs
Expansion Zones	Cascadable (Contact CIS for details)
Power Distribution	Centralised power sufficient for 6W per channel for each of 8 zones. Additional power requires local amplifier power supplies.
Analog Inputs	4 Line Level Stereo
Analog Loop Through	Use looping connectors
Digital Audio Input	RJ45 and TOSlink
Analog Input Impedance	47k ohms
Digital Input Impedance	110 ohms
IR Outputs	2 x C-Bus controlled IR ports + Retriculated IR
Controller Connectors	C-Bus (RJ45)
Home Control System Interface	C-Bus
Source Input Connectors	RCA/RJ45/TOSlink
Power Link Jack	4 pin mini-din
Connections	
Wiring Specification	Cat-5
Connectors	RJ45 8P8C
C-Bus	
Current Drawn	18 mA
C-Bus PSU	400mA
Dimensions	424mm(W) x 267mm(D) x 66mm(H)

Catalogue Number	Description
5560884	C-Bus Audio Matrix Switcher for Multi-Room Audio System.



ducts 200



C-BusAudio Distributor Cat No. 560011

The Audio Distribution unit is used to distribute a single stereo audio source to C-Bus Audio Amplifiers via a digitised signal over Cat-5 cable. This unit does not require any C-Bus programming.

- One stereo analogue audio source input.
- One digital audio output (cascadable to multiple zones).
- Cat-5 cable connection between Distributor and amplifiers.
- Provides limited power for amplifiers (with dc power pack connected).
- Output can be looped between C-Bus Audio Amplifiers.





Provisional Specifications	
Design Technology	16-bit Audio Path
Sampling Rates	48kHz
Source Inputs	1 Stereo Line Level Analogue
Zone Outputs	1 Digital Audio outputs
Power Distribution	Unit can use a local power supply (24V a.c./DC) or if connected to an amplifier, obtain power from the amp.
Digital Audio Input	RJ45 and TOSlink
Analog Input Impedance	47k ohms
Digital Input Impedance	110 ohms
Source Input Connectors	RCA
Power Link Jack	DC power jack
Connections	
Wiring Specification	Cat-5
Connectors	RJ45 8P8C
Dimensions	165mm(W) x 50mm(D) x 40mm(H)

Catalogue Number	Description
560011	Audio Distribution Unit, one stereo audio input source and one digital output source.



ducts 2005



C-BusAudio Amplifiers 5601 Series

Desktop Audio Amplifier

The desktop mounted, C-Bus Stereo Audio Amplifier, is rated at 25 Watt/Channel (RMS). Volume, Bass, Treble and Balance are all adjustable via C-Bus input devices. The Desktop Amplifier front panel includes Power on/off, Mute, Volume and source select buttons and an infrared target for remote control. Used in conjunction with the C-Bus Audio Matrix Switcher or the Audio Distribution unit.

Remote Mount Amplifier

The Remote Mount, C-Bus Stereo Audio Amplifiers are available in 25 Watt/Channel (RMS) and 10Watt/Channel (RMS) versions. Volume, Bass, Treble and Balance adjusted via C-Bus input devices, and are used in conjunction with the C-Bus Audio Matrix Switcher or the Audio Distribution unit.

- Control via C-Bus input devices, such as C-Bus Wall Switches and Touch Screens.
- Volume, bass, treble, balance controlled by C-Bus.
- Quiet Digital Audio design.
- Stereo 25W RMS per channel Remote and Desktop mounted units.
- Stereo 10W RMS per channel Remote mounting only.
- Can be cascaded off one Digital Audio Cat 5 input.
- Pre-amp output stage for connecting to a 3rd party power
- Desktop unit includes Power on/off, Mute, Volume and source select button and IR control.
- Setup via C-Bus software.
- Signal source either:





Provisional Specifications	
Туре	Digital Stereo Pulse Width Modulated - 8x Oversampling
Power	25W per channel and 10W per Channel (RMS) into 4 ohms
Frequency	20Hz – 20kHz
Loudspeaker Impedance	4 ohms Nominal
Loudspeaker Output	Spring Loaded, Wire Trap, L & R x 2
Tone Control	Bass and Treble (+/-16dB)
Balance Control	Yes (+/- 16dB)
IR Receiver	Reticulated IR inputs output +12V and accept and pass- through raw modulated IR data
Inputs	Digital Audio / Line level stereo analog / TOSLINK (16bit 48kHZ for digital)
Outputs	Speakers / Line level analog stereo / digital audio
Connections	
Wiring Specification	CAT-5 or better
Connectors	RJ45 8P8C - Digital audio in/out
	TOSlink – optical
	RCA - analogue
C-Bus	
Current Drawn	Powered from Amplifier
Connection	RJ45 x 2
Dimensions	
Front Panel	180mm(W) x 194mm(D) x 66mm(H)

Catalogue Number	Description
560125D	25 Watt/Channel (RMS) Stereo Audio Amplifier, C-Bus Enabled. Desktop-mount version.
560125R	25 Watt/Channel (RMS) Stereo Audio Amplifier, C-Bus Enabled. Remote-mount version.
560110R	10 Watt/Channel (RMS) Stereo Audio Amplifier, C-Bus Enabled. Remote-mount version







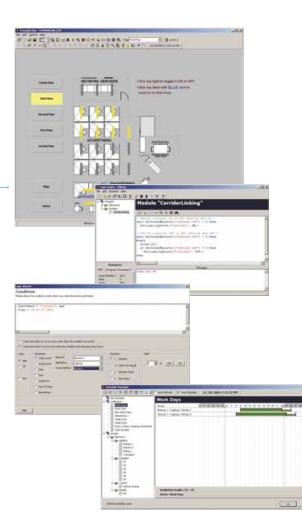
Software

Schedule Plus and HomeGate V3

Featuring the new C-Bus Logic Engine

Schedule Plus and HomeGate software packages provide a powerful and easy to use interface to C-Bus via a standard PC. Schedule Plus has been developed specifically for commercial and industrial applications, and HomeGate for residential environments. The software packages provide scheduling, manual control and monitoring of a C-Bus system from a PC running Windows 98SE, 2000, NT, ME or XP.

Version 3 of Schedule Plus and HomeGate include a number of major new features, including a fully featured programmable logic engine.



Features

Major New Version 3 features

- Ability for components to control System I/O Variables (used with Logic).
- New Special Functions:
 - Set Internet properties.
 - · Set networking properties.
 - · Show System properties (processor, memory etc).
 - · Set display (screen saver etc).
 - Set region (for date / time format etc).
 - · Set sound.
 - · Set time, date and timezone.
 - · Store Scene.
- Copy Groups function to copy the group address from one component to another.
- Option to show component number or actions.
- Support for project Themes.
- Auto Scene Creation from selected components.
- Alpha blending of component background & border.
- Support for embedding Web pages.
- Support for animated bitmaps.
- New page backgrounds.
- New component borders.
- New selector component.
- New component status options.
- Automatic component labelling.



New C-Bus Enabled Logic Engine

The Logic Engine forms an integrated part of the Schedule Plus and HomeGate packages. It provides a general-purpose means of describing the behavior of a system, and executes programs for the user to implement functions such as:

- Scheduling (time and date based events).
- Logic (conditional events).
- Combinations of Scheduling and Logic.
- Calculations.
- Protocol conversions.

The programming language used in the Logic Engine is based on the standard Pascal computer language, enhanced with specific commands related to C-Bus control. The Pascal language supports commands such as:

- Conditional Logic (IF THEN, AND, OR, NOT etc).
- Flow Control (FOR, REPEAT, WHILE).
- Variables (integer, real, Boolean, character, string).
- Procedures and Functions.
- Arithmetic.

The Language has been extended to support automation functions such as:

- Control and Monitor C-Bus Groups / Scenes.
- C-Bus Tag names.
- Serial (RS232) and TCP/IP.
- Schedule Plus / HomeGate specific commands (Page select etc).
- Graphics.
- Logging.
- User inputs and outputs.
- Edge triggered conditional statements.

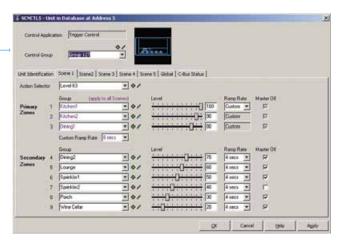
The Logic Engine has been designed to be uniquely intuitive and simple to use, with inbuilt wizards for basic logic or for beginners, a text based entry for more sophisticated logic and for advanced programmers and dialogue boxes to access most functions.

Catalogue Number	Description
5000SP/3	Schedule Plus Application Software, Single Network Licence
5000SP5/3	Schedule Plus Application Software, Five Network Licence
5000SPUNL/3	Schedule Plus Application Software, Unlimited Network Licence
5000SPUP3 Schedule Plus Upgrade Pack, Upgrade to Version 3	
5000HG/3	HomeGate Application Software, Single Network Licence
5000HG5/3	HomeGate Application Software, Five Network Licence
5000HGUP3	HomeGate Upgrade Pack, Upgrade to Version 3



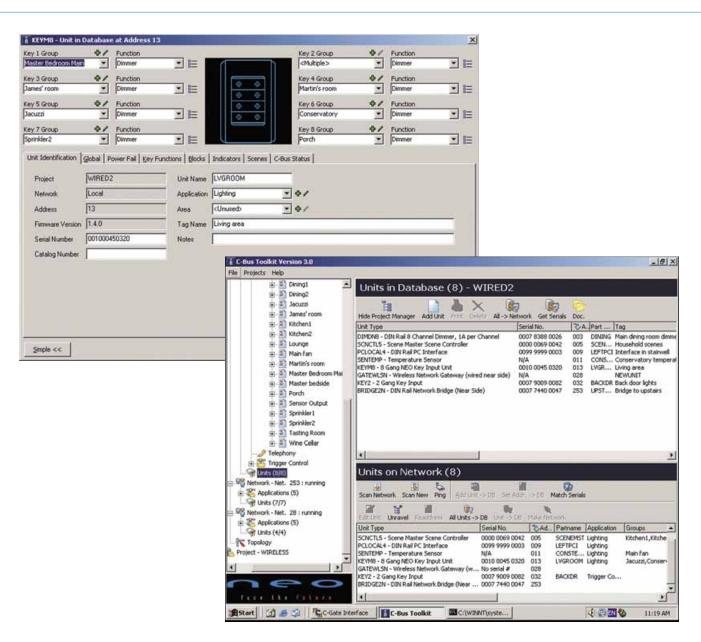
C-Bus Toolkit Software 5000S/3 Series

The C-Bus Software Toolkit includes the new version of the C-Bus installation software. This new version supports Windows™ 98SE, ME, 2000 and XP. The software supports a new and unique Barcode Scanning programming feature, in addition to traditional programming methods. The barcode scanning technique allows the installer to scan the C-Bus packaging of each new unit to automatically add the unit to the C-Bus project database. This ensures the correct unit type is added and saves the installer having to select from a list of unit types. C-bus units are packaged with adhesive serial number labels that can be affixed to plans etc. Units already added to a Network can then be recalled by scanning the Serial Number of the Unit.



- Full support for all existing and new C-Bus units.
- Compatible with all existing C-Bus installations programmed with Version 1 or 2 installation software.
- Full support for Windows™ XP operating system, as well as WindowsTM 98SE, ME and 2000.
- Based on standard Windows[™] Explorer style interface.
- Supports programming via RS-232 (via C-Bus PCI) and Ethernet (via C-Bus CNI).
- Upgraded and fully interactive Topology Manager.
- Upgraded, and now integrated, Project Manager.
- Upgraded and fully integrated C-Bus calculator.
- Remote programming of networks via the Internet.
- Neo Scene Editor now supports Live modes.
- Support for programming using a barcode scanner, as well as the traditional (Version 2) programming methods.
- New commissioning tools to speed up Network commissioning.
- New Diagnostic tools to make commissioning even faster.
- Support for Multiple Users.
- Sortable Browser Columns.
- Support for Long Tag Names has been added.
- Units can now have long descriptions.





ı	Catalogue Number	Description
	5000S/3	C-Bus Toolkit Software



Infrared Distribution System 8050 Series

The 8050 product series forms a flexible, cost effective multizone Infrared Distribution System, which can be used in isolation or as part of the Clipsal StarServe Home Networking range.

Most homes have audio/visual systems that incorporate infrared control to operate source functions such as play, stop, channel up and down etc. Clipsal's Infrared Distribution System allows the control of source functions from different rooms or the control of source equipment located in a solid cabinetry.

Additionally, Clipsal's Infrared Distribution system provides two independently controlled IR zones for installations where multiple set-top-boxes may be installed, with matching remotes

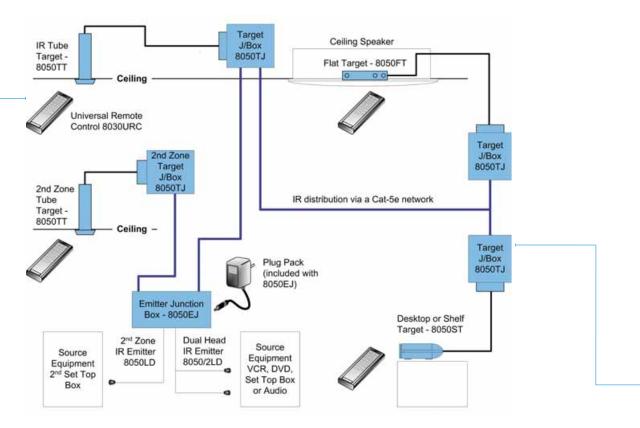
Typical System Diagram demonstrating how the individual components can be installed to form an IR Distribution System. This allows the homeowner to only control particular source equipment in certain areas of the home. For example, Set Top Box 1 can be controlled in the Bedrooms and Lounge; Set Top Box 2 can only be controlled in the Family Room and Kitchen.

IR emitter leads (8050LD or 8050/2LD) are connected to either Zone A (1st Zone) or Zone B (2nd Zone) of the 8050EJ and are run to the desired source equipment, where the head of the lead is positioned on or near the IR receiver.

A connection from the Zone A or Zone B connection point on a 8050EJ to a 8050TJ unit is made via Cat-5e cable, which terminates in the RJ45 sockets of both units. Both the 8050EJ (Zone B only) and 8050TJ junction boxes provide a further RJ45 socket to enable multiple junction boxes to be connected into the IR Distribution Network.

Targets can then be plugged into the 8050TJ and placed at desired locations around the home.

The system can be expanded to have more IR targets and IR emitters as required.





IR Distribution System Components

IR Distribution System Components

IR Distribution System Emitter Junction Box





The 8050EJ has been designed to sit on top of or near the AV equipment. It is the main distribution hub of the IR Distribution Network.

The unit connects to the distribution system as follows.

IR Emitter Ports – There are five output connections for IR Emitter leads. Emitter Output 1 is dedicated for Zone A, Emitter Output 5 is dedicated to Zone B, Emitter Outputs 2,3 and 4 can be used by either zone.

RJ45 Connections – The Emitter Junction Box has three RJ45 connections, allowing Target Junction boxes to be networked via a Cat-5 connection. RJ45 Output 1 is dedicated to Zone A, while Zone B has the ability to supply two Target Junction Boxes, via RJ45 Outputs 2 and 3.

Local target connections – Both Zone A and B have the ability to power one locally placed target each directly.

IR Distribution System Target Junction Box



The 8050TJ acts as a termination point between an IR Target and the 8050EJ. It has the ability to enable the installation to loop to the next 8050TJ.

The 8050TJ can be mounted onto a Clipsal Wall Plate (eg 2000, Classic, Slimline and Eclipse series), as well as inside a cabinet or wall stud.

IR Targets

These targets contain an infrared receiver array, designed to receive and relay IR data from required locations to the centrally located Emitter Junction Box. An Infrared Target may be installed in each room of the house, allowing the user to control audio/visual equipment (such as VCRs, Cable TV Decoders, CD Players etc) from each required location.

There are three types of targets that can be used on the IR Distribution system.

8050ST -

IR Distribution System Shelf Top Target

Suitable for use on top of TV's or inside Stereo cabinets



8050TT -

IR Distribution System Tube Target

Suitable for use in speaker grills and air conditioning vents



8050FT -

IR Distribution System Flat Target

Can be mounted behind a Clipsal Slimline, Eclipse, Classic and 2000 series grid plates.



Catalogue Number	Description	
8050EJ	IR Distribution System Emitter Junction Box	
8050TJ	IR Distribution System Target Junction Box	
8050ST	IR Distribution System Shelf Top Target	
8050TT	IR Distribution System Tube Target	
8050FT	IR Distribution System Flat Target	





IR Remote Control Universal, Hand Held Cat No 5030URC

The 5030URC is a universal, hand held, infrared remote control unit that is easy to program and use. It allows the user to control electronic devices that are equipped with an infrared (IR) remote.

The 5030URC is simple to use via the touch screen panel and control buttons. When a device is selected, the appropriate screen appears. Up to 16 devices can be controlled, including C-Bus, VCRs, DVDs, TVs and satellite receivers.

C-Bus IR codes for the C-Bus 5038TX and 5035TX IR Remote Controls are imbedded into the 5030URC. These are accessed by selecting the 'C-Bus' device button.

The 5030URC is quick and easy to configure with new IR codes using the "learning eye". In addition, the advanced macro function allows a chain of up to 60 commands to be activated with the touch of a single button.

Convenient and easy to use, the 5030URC provides a complete, central, infrared remote control solution.

C-Bus Remote Controls

The C-Bus device contains two built-in pages for the control of C-Bus devices. Pages 1 and 2 provide controls for the 5038TX and 5035TX Remote Controls respectively. These remotes work with the Neo and SceneMaster C-Bus devices.



- In-built C-Bus Infrared Codes.
- Large touch screen display.
- Quick Control buttons.
- LED indicators provide information and feedback on:-
 - Status of the beep feature (audible button press confirmation).
 - · Battery low warning.
 - · Confirmation of a successfully transmitted infrared code.
 - Error warning.
 - Touch screen page number.
- Macro function (up to 60 commands per macro).
- Control of up to 16 devices including C-Bus, DVDs, TVs, satellite receivers, VCRs and CDs.
- Learning IR codes from existing remote controls.
- Pre-programmed manufacturer codes for many models.
- User programmable buttons for each device include 7 rubber buttons and 48 touch screen buttons.
- Blue LED backlighting.
- Sleep button.
- Page/Date Button
- Optional PC interface for connection to a personal computer.



Parameter	Description
Dimensions (W×H×D)	82 ×185 × 30 mm
Weight (without batteries)	220 g (7.8 oz)
Number of devices	16
LCD Screen (W×H)	60 × 82 mm (2.4 × 3.2 inches)
Touch screen buttons per device	48 (2 pages of 24 buttons)
Black rubber buttons per device	7 usable
Backlighting	Blue LED
Learning Frequency	10 kHz to 455 kHz and pulse
Memory	256 kB flash memory
Batteries	4 × AAA alkaline batteries
Power consumption	LCD off : 50 μA LCD on : 300 μA Operate: 30 to 150 mA
Battery life	Approx. 3 to 6 months
Operating Distance	Approx. 9 m (30 feet)
PC interface	USB (Option 5030URC/CABLE)

Catalogue Number	Description
5030URC	Universal, Hand Held, IR Remote Control





Product of

Clipsal Integrated Systems Pty Ltd

Member of Clipsal Australia Holdings Group ABN 15 089 444 931

Head Office

12 Park Terrace, Bowden South Australia 5007

PO Box 103 Hindmarsh South Australia 5007

Telephone (08) 8440 0500 International +61 8 8440 0500 Facsimile (08) 8346 0845

Internet www.clipsal.com/cis <u>E-Mail</u> cis@clipsal.com.au

+61 8 8346 0845

CIS Technical Support Hotline

1300 722 247

International

Offices in all States

NSW	Sydney Albury	(02) 9794 9200 (02) 6041 2377
VIC	Melbourne Country Areas	(03) 9207 3200 1800 653 893
QLD	Brisbane Townsville	(07) 3244 7444 (07) 4729 3333
SA	Adelaide	(08) 8268 0400
WA	Perth	(08) 9442 4444
TAS	Launceston	(03) 6343 5900
NT	Darwin	(08) 8947 0278

International Enquiries

International Sales and Marketing

Telephone +61 8 8269 0587 Facsimile +61 8 8340 7350 E-Mail export@clipsal.com.au

New Zealand

Clipsal Industries (NZ) Ltd
Telephone +64 9 576 3403
Facsimile +64 9 576 1015

E-Mail headoffice@clipsal.co.nz

Customer Service

Free Facsimile (0508) 250 305 Auckland/Mobile Phone (09) 572 0014 Free Phone (0508) CLIPSAL 2547725

Malaysia

Clipsal Integrated Systems (M) Sdn Bhd Unit 3-2, Level 3, C P Tower No.11, Jalan 16/11, Seksyen 16, 46350 Petaling Jaya, Selangor, Malaysia

Telephone +60 3 7665 3555
Facsimile +60 3 7665 3155

<u>E-Mail</u> sales@cisasia.com.my

Singapore

Clipsal Integrated Systems Pte Ltd 5, Fourth Chin Bee Road 619 699 Singapore

Telephone +65 6266 1998 Facsimile +65 6266 3922 E-Mail sales@cisasia.com.sg

International Representatives

China

Clipsal China Limited Telephone +86 755 8237 5959

Greece

Schneider Electric AE Telephone +30 69 4646 3200

Hong Kong

Clipsal Integrated Systems (HK) Limited Telephone +852 2487 0261

India

Schneider Electric India Pvt Ltd Telephone +91 11 5159 0000

Indonesia

PT Clipsal Graha Nusantara Telephone +62 21 630 6430

Korea

Clipsal Korea Co. Ltd Telephone +82 31 708 9240

Pakistan

Clipsal Pakistan (PVT) Ltd Telephone +92 21 506 7278

Philippines

Clipsal Representative Office Telephone +632 683 0275-78

South Africa

Clipsal South Africa (Pty) Ltd Telephone +27 11 314 5200

Taiwar

Clipsal (Taiwan) Co Ltd Telephone +886 2 2558 3456

Thailand

Clipsal Thailand Ltd Telephone +66 2 952 5338-42, 7660-3

United Arab Emirates

Clipsal Middle East Telephone +971 6 5570 777

United Kingdom

Clipsal Integrated Systems (UK) Telephone +44 1628 508 530

Vietnam

Clipsal - VTEC

Telephone +848 856 3002

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