



COMMAND FUSION

Mini Starter Pack

CommandFusion (CF) products are designed to simplify control system programming without compromising on functionality. CF hardware integrates easily with its mobile control apps and allows sophisticated GUI control over any third party device.

“The Mini Starter Pack includes all you need to get started with CommandFusion, and is perfect for single room installations such as home theatres, boardrooms as well as distributed systems such as classrooms.”

The CF Mini provides all of your control connections, while the LAN Bridge provides an Ethernet connection to allow for control from mobile devices. Packaged with this is a single license of CommandFusion iViewer to allow you to create a custom GUI to suit your installation requirements for control via iPad, iPhone, Android.

CFLink

CommandFusion uses a communications bus specifically developed for our own hardware range. This bus is known as CFLink and is designed for robustness and reliability. The CFLink bus is a 5-pin 9-30 volts DC powered bus with an isolated RS485 communication line. Every CFLink device contains its own processor and memory, which allows for distributed processing, simplified programming as well as eliminating the reliance on a single device. Cabling is standard Cat5 or Cat6 with distances of over 1,000m possible without the use of repeaters. Compatible cabling topologies include daisy-chain, star or a combination of both.

CF Mini

The CF Mini is a powerful, all-in-one controller. It features 8 x IR outputs, 4 x configurable I/O ports, 4 x 30VDC latching relays and 1 x RS232/Program port. All CFLink Devices support a powerful rule triggering engine. This allows you to trigger macros to run when a specific event occurs – such as reading a specific value via the I/O ports or incoming data via the RS232 port. Using the rules engine, basic or complex automation actions can be implemented. All IR emitting devices include an on-board IR database, consisting of over 500,000 IR codes to ensure quick and easy configuration.

LAN Bridge

The LAN Bridge provides ethernet connectivity to all devices connected via the CFLink bus. It has many advanced networking features, including the ability to communicate via TCP Server, TCP Client, UDP Unicast and UDP Broadcast, all at the same time. 10 different communications slots can be defined, each with its own configuration of protocol type, port and other options. A maximum of 25 total TCP socket connections can be shared between each defined slot. The on-board real-time clock allows the LAN Bridge to be used for scheduling of events, as well as randomised “away mode” events for security purposes. The clock can be configured to synchronise with a time server to ensure accuracy.

iViewer

CommandFusion iViewer allows full 2 way remote control of any hardware or software capable of TCP/IP or UDP communications, directly from Apple iOS or Android devices. Our powerful iViewer automation engine lets you create beautiful, dynamic and animated users interfaces. Using our guiDesigner software, you have full control over how each page looks and interacts. Fully customize layouts, themes, interactions and easily program animations and page transitions. Create commands and macros assigned to on-screen objects as well as assign actions to user gestures, and much more.

What is included?

- CF Mini
- LAN Bridge
- Power Supply
- iViewer



CF Mini & LAN Bridge



Power Supply



iViewer

CF Mini

Miniature integrated controller



The CF Mini is a multi-purpose all-in-one controller specifically designed for single room to mid-size installations.

- CFLink BUS device with independent processor and memory
- 1 x RS232 programming or RS232 port
- 8 x IR outputs for wired emitters, with onboard IR library for over 500,000 non-unique codes
- 4 x channels of I/O either as digital input, voltage or resistance input read or LED output
- 4 x 30 volts DC 1A latching relay
- MicroSD slot for memory expansion
- Memory used for storage of IR Files and event triggering

CONNECTIVITY	
CFLink	Detachable 5-pin 3.81mm terminal block for CFLink BUS
COM	6-pin RJ11 female port for RS232 control of devices; or programming mode which allows both programming and external control of the CFLink BUS devices
IR 1-8	4 detachable 4-pin 3.5mm spring terminal blocks for infrared emitters
I/O 1-4	2 detachable 4-pin 3.5mm spring terminal blocks for GPIO: - Digital input for dry contact inputs - Analog input for 0-10 Volts DC read or 0-10k Ohms read, - Digital output for LED output or external relay control (separate relay power supply required)
Relay 1-4	2 detachable 4-pin 3.5mm spring terminal blocks for latching relays; rated 1A 30 volts AC/DC
POWER	
CFLink Power	9-30V DC, 24V DC regulated recommended (power supply is not included)
Power Consumption	250mW maximum

TOP PANEL	
Power Indicator	Blue LED indicates power status
CFLink Fault LED	Red LED indicates error on CFLink BUS
CFLink Activity LED	Yellow LED indicates CFLink BUS traffic
Setup Button	Setup button used for factory reset
Reset Button	Reset button restarts the processor
Program Indicator	Yellow LED indicates RS232 port is used for programming or control of CFLink BUS
RS232 Indicator	Yellow LED indicates RS232 port is used for control of RS232 devices
Status Indicator	Yellow LED indicates status/activity on any of the CF Mini on-board ports (configurable)
PHYSICAL	
Enclosure	Polycarbonate with dark grey matte finish
Height	61mm (2.40in)
Width	81.4mm (3.2in)
Depth	76.4mm (3.0in)
Weight	0.22kg (0.49lbs), Shipping 0.4kg (0.88lbs)
Temperature	5°C to 45°C (41°F to 113°F)
Humidity	20% to 85% RH, non-condensing
Certification	FCC, CE, C-Tick

LAN Bridge

Ethernet CFLink bridge



The LAN Bridge provides an Ethernet interface to all CFLink devices, supporting a variety of Ethernet protocols and communication options.

- CFLink BUS device with independent processor and memory
- 1 x Ethernet socket for wired LAN connectivity
- 1 x RS232 programming or RS232 port
- Realtime clock with scheduling support
- MicroSD slot for memory expansion
- Memory used for storage of IR Files and event triggering

CONNECTIVITY	
CFLink	Detachable 5-pin 3.81mm terminal block for CFLink BUS
RS232/PGM	6-pin RJ11 female port for RS232 control of devices; or programming mode which allows both programming and external control of the CFLink BUS devices via RS232.
Ethernet	RJ45 female port for Ethernet connectivity, with two LED status lights for data transmission and connectivity status.
MicroSD slot	Spring-loaded memory expansion slot
PHYSICAL	
Enclosure	Polycarbonate with dark grey matte finish
Height	41mm (1.61in)
Width	81.4mm (3.2in)
Depth	76.4mm (3.0in)
Weight	0.13kg (0.29lbs), Shipping 0.3kg (0.66lbs)
Temperature	5°C to 45°C (41°F to 113°F)
Humidity	20% to 85% RH, non-condensing
Certification	FCC, CE, C-Tick

TOP PANEL	
Power Indicator	Blue LED indicates power status
CFLink Fault LED	Red LED indicates error on CFLink BUS
CFLink Activity LED	Yellow LED indicates CFLink BUS traffic
Setup Button	Setup button used to select program or RS232 mode for RS232 port and also factory reset
Reset Button	Reset button restarts the processor
Prog Indicator	Yellow LED indicates RS232 port is used for programming or control of CFLink BUS
RS232 Indicator	Yellow LED indicates RS232 port is used for control of RS232 devices
Status Indicator	Yellow LED indicates data being sent/received via the RS232 port
POWER	
CFLink Power	9-30V DC, 24V DC regulated recommended (power supply is not included)
Power Consumption	2W maximum