

# CDEther



**interspace  
industries**

Cueing and Presentation Control Specialists

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## Introduction

CDEther is a product that can be utilised in a Send/Receive setup or just as a receiver for transmissions over an Ethernet network.

CDEther has been designed specifically for use with the CDTouch, Soft CountDown, Filibuster and some 3rd party, software only, products, which means our displays can now be connected over Ethernet.

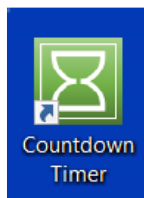
This is Version 1 and we need your support in understanding what, if any, changes we need to implement in version 2.

We hope you find this product as exciting as we do and we welcome your feedback on it.

We have been working with the wonderful people at Irisdown and Neodarque for their software versions of on screen timers. CDEther will work directly with these.

<http://www.neodarque.com/StageTimer>

<http://www.irisdown.co.uk/countdowntimer.html>



Thank you.

The Interspace Industries Team

[www.interspaceind.com](http://www.interspaceind.com)

## Safety Instructions

All safety and operating instructions should be read prior to first use of this product and should be retained for further reference. Please adhere to all warnings on this product and in these operating instructions. Please follow these instructions carefully.

### Keep Away From Harmful Substances

To prevent the risk of electric shock and fire; do not expose this device to rain, humidity or intense heat sources (such as radiators or direct sunlight).

Avoid using this equipment in environments where there is excessive heat, dust, moisture, chemicals, vibration or mechanical shock.

**Slots and Openings:** These are designed for ventilation and to avoid overheating. Always ensure these openings remain clear. **Do not attempt to insert anything into these openings under any circumstances.** If liquids have been spilled on, or objects have fallen into the product, it must be checked by a qualified technician before reusing.

**Connections:** All inputs and outputs (except for power input) are TBTS defined under EN60950.

**DO NOT OPEN SYSTEM DUE TO HIGH VOLTAGE.**

**DO NOT IMMERSE IN WATER.**

If you have any queries regarding these safety instructions or how to maintain the unit please do not hesitate to contact us on:

**+44(0) 1462 600 101**

**Servicing.** Do not attempt to service this product yourself. Should an unauthorised person attempt to either open the covers or service our products, it may invalidate your Limited Factory Warranty. In addition, opening or removing covers and screws may expose you to electric shocks or other hazards. Refer all servicing to qualified service personnel.

## Setting Up

**CDEther** is set up as separate units of a Sender/Receiver system, they are configured as UDP devices to broadcast over an enclosed Ethernet network. They will use the DHCP of the router to be assigned IP addresses. The Sender is designed to connect to our controllers - CDTouch, Filibuster and Soft Countdown. The Receiver will receive the broadcast, and send it on to the displays. Both Sender and Receiver will need to be connected via XLR (not supplied) to the relevant units. The Receiver will need a DC power supply suitable for the numeric display being used. Usually 12V DC (300mA min).

## Operating instructions

The **CDEther** units are supplied pre-set for deployment on an standard network with DHCP. They use UDP to broadcast (and receive) the timing outputted by the controller.

### Sender

Plug the sender into the controller (via user supplied XLR) . This will power the Sender and it will start sending the outputted time. Locate a network cable from your ethernet router and plug it in to the Sender.

### Receiver

Use the correct power supply for the display you have—usually a 12V DC (300mA min). Plug your display in to the Receiver, using your XLR cable. Plug your Ethernet cable from the same router (different port) to the Receiver unit.

If the controller is running and a time countdown is being outputted, it will appear on the display within a few seconds.

### Specifications:

#### Power

12V 200mA sender and receiver  
Supplied Power supply 12V 500mA

#### Signals

RS232 in and out Sender and Receiver

#### Dimensions mm (inch)

D x W x H  
76(3") x 94(3" 11/16) x 48(1" 7/8)

#### Weight

340g (12 Oz)

Note XLR cables are not supplied as standard.

**WARNING any changes you do here are at your discretion and are not covered by any warranty what so ever.**

The Module can be set up for a different mode of connection such as Fixed IP instead of DHCP.

These are the configurations of a working system.

If you change the Password or Username and can not remember then then the unit can only be used as you have left it. At Best it will have to be scrapped.

It is assumed you will have a knowledge of IP to do this. Consult an expert if needed.

You have been warned.

To log in to the unit—find its IP address using your routers functions on DHCP  
Username — i2adm Password — i2adm

Note UDP client for this Sender. And Addr to [255.255.255.255](http://255.255.255.255)

parameter	
Baud Rate:	9600 bps
Data Size:	8 bit
Parity:	None
Stop Bits:	1 bit
Local Port Number:	0 (0~65535)
Remote Port Number:	36700 (1~65535)
Work Mode:	UDP Client
Remote Server Addr:	255.255.255.255 [255.255.255.255]
RESET:	<input type="checkbox"/>
LINK:	<input type="checkbox"/>
INDEX:	<input type="checkbox"/>
Similar RFC2217:	<input checked="" type="checkbox"/>

Save Cancel

The Units name and logon details are under [Misc Config](#)

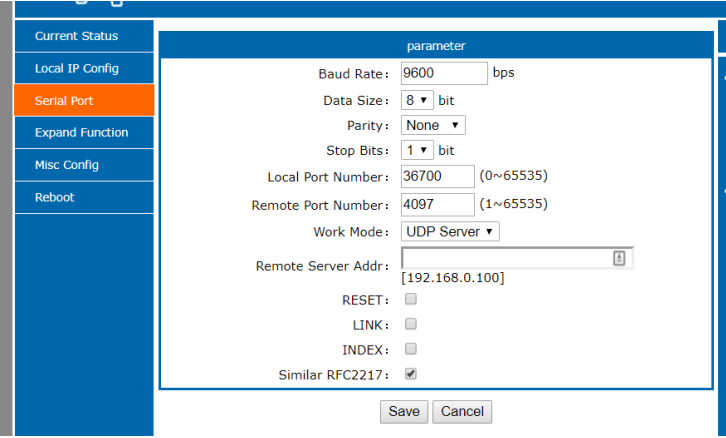
Do not change the Username and Password to ensure you can log back in.

Current Status	parameter
Local IP Config	Module Name: i2 TIMING TX
Serial Port	Webserver Port: 80
Expand Function	Username: i2adm
Misc Config	Password: i2adm
Reboot	MAC Address: 9C-A5-25-84-DF-57
	Max Clients Connect To TCP Server: 4 (1~16)
	Reset Timeout: 3600 (s)(0,60~65535s)
	<input type="button" value="Save"/> <input type="button" value="Cancel"/>

## Receiver set up.

As can be seen, this has been set to UDP server

Use the port number of 36700 for all ( the Remote port below (4097)as been



The screenshot shows a configuration window with a sidebar on the left and a main parameter configuration area on the right. The sidebar contains the following menu items: Current Status, Local IP Config, Serial Port (highlighted in orange), Expand Function, Misc Config, and Reboot. The main area is titled "parameter" and contains the following settings:

- Baud Rate: 9600 bps
- Data Size: 8 bit
- Parity: None
- Stop Bits: 1 bit
- Local Port Number: 36700 (0~65535)
- Remote Port Number: 4097 (1~65535)
- Work Mode: UDP Server
- Remote Server Addr: [192.168.0.100]
- RESET:
- LINK:
- INDEX:
- Similar RFC2217:

At the bottom of the configuration area are "Save" and "Cancel" buttons.



## DHCP configuration.

In order for the unit to work on most LANs the units have been set to DHCP mode so the Router can assign the IP address of the units.

Current Status	parameter				
Local IP Config	IP type:	DHCP			
Serial Port	Static IP:	192	168	0	7
Expand Function	Submask:	255	255	255	0
Misc Config	Gateway:	192	168	0	1
Reboot	DNS Server:	208	67	222	222
		Save Cancel			

## Environmental

**WEEE and RoHS Compliance.** CDEther and its associated accessories have been manufactured and sold in accordance with the requirements of the ECEE and RoHS directives. Please return all end-of-life items to your supplier, or your local Interspace Industries representative directly, for appropriate disposal.

### Packaging Materials:

Cardboard box: Grade 150K/T 'B' (Single Walled Corrugated- Brown Kraft)

Protective Foam: Grade HLB 22 Grey Foam (High Load Bearing)

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## DECLARATION OF CONFORMITY

We declare under our sole responsibility that the products:

**CDEther Sender or Receiver**

( Part No: CDEther)

Conform to the following standards:

**EN 62368-1:2014 Audio/Video, Information ,  
Communication technology equipment—Part 1: Safety Requirements  
EN 55032:2015 (Emissions) / EN 55035:2017 (Immunity)**

**Following the provisions of the EEC Directive 2014/30/EU and 2014/35/EU**



Issued on: Date May 2019

Dave Humphrys  
CEO, Interspace Industries  
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Welwyn Garden City  
Herts  
AL7 1AU, UK

# FCC Compliance Information Statement

## Declaration of Conformity

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.

We, Interspace Industries, have determined that the above named equipment has been shown to comply with the applicable technical standards. Furthermore, we warrant that each unit of equipment marketed is identical to the unit tested and found acceptable with the standards. The records maintained continue to reflect the equipment being produced within the variation that can be expected due t quantity production and testing on a statistical basis.

Manufacturer:	Interspace Industries
Responsible Party in the USA:	Interspace Industries LLC 72 Grays Bridge Road, STE-1C Brookfield CT, 06804 Tel, Office: 203-814-1879
Product:	CDEther (Sender or Receiver)
Authorisation Procedure:	Declaration of Conformity

### Equipment Supplied

1 x CDEther      Sender  
Receiver—with PSU

### For Technical Support Or Sales Enquiries:

Interspace Industries Head Office:  
**+44 (0) 1462 600101**  
Emergency Technical Support Hot Line:  
**+44 (0) 7976 385 046**  
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[www.interspaceind.com](http://www.interspaceind.com)



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