

M4

WIFI & SD CARD

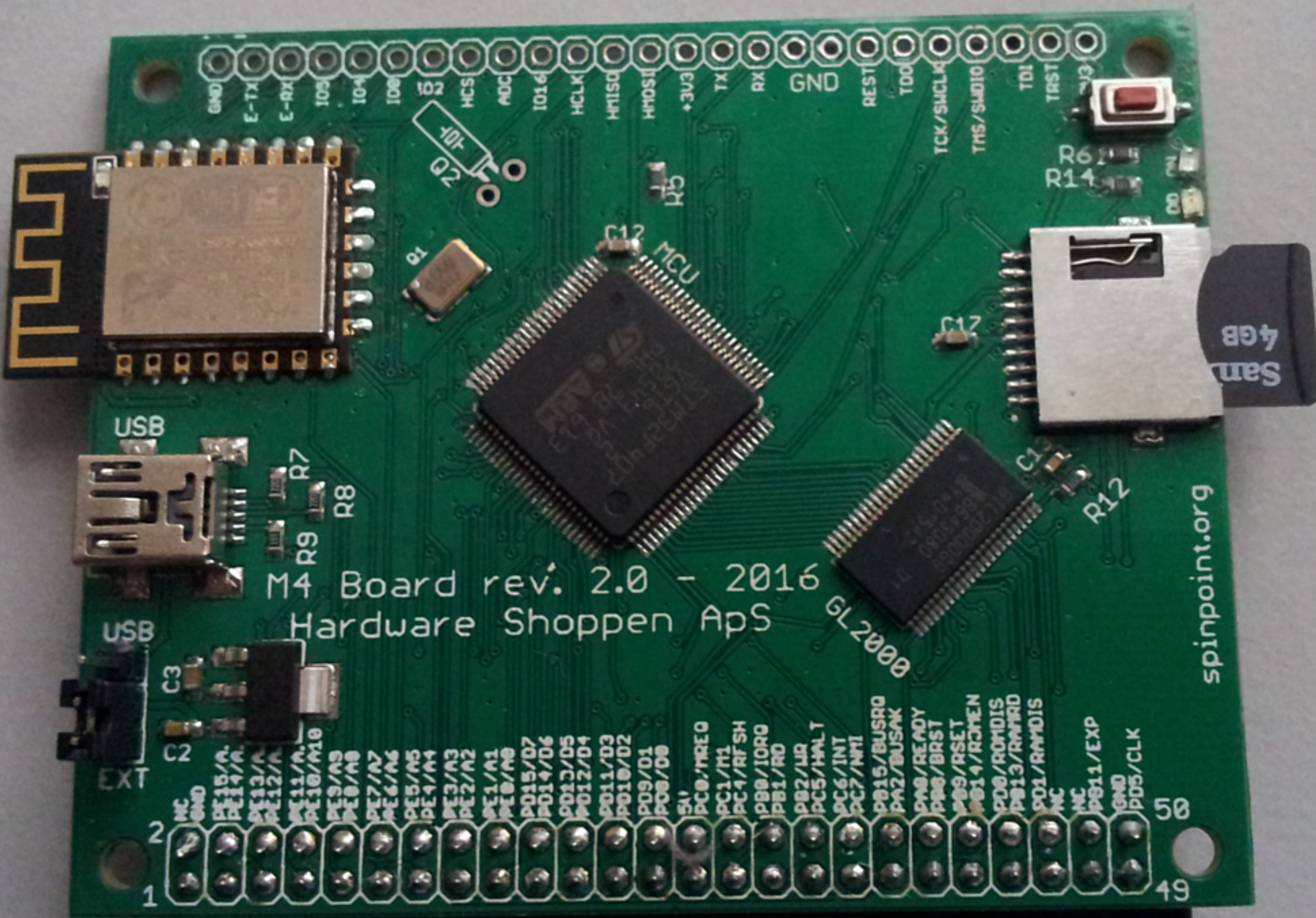
FOR

CPC

AMSTRAD





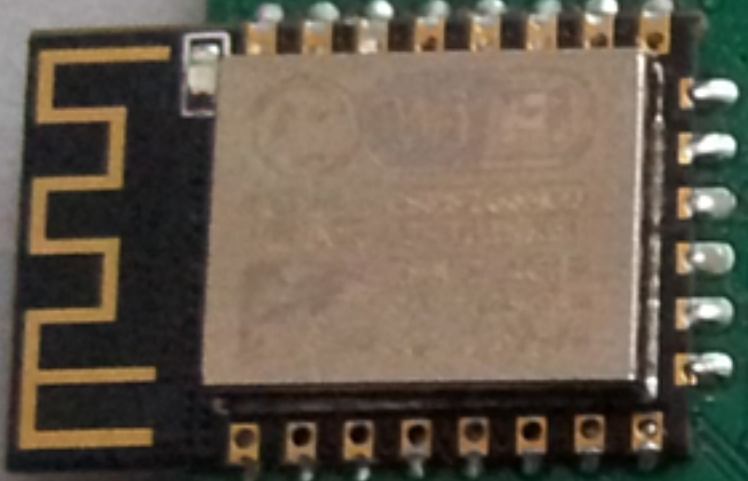


M4 Board rev. 2.0 - 2016  
Hardware Shoppen ApS

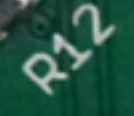
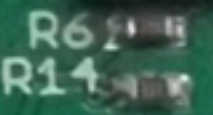
spinpoint.org

- 1
- 2
- MC
- GND
- PE15/A
- PE14/A
- PE13/A
- PE12/A
- PE11/A
- PE10/A10
- PE9/A9
- PE8/A8
- PE7/A7
- PE6/A6
- PE5/A5
- PE4/A4
- PE3/A3
- PE2/A2
- PE1/A1
- PE0/A0
- PD15/D7
- PD14/D6
- PD13/D5
- PD12/D4
- PD11/D3
- PD10/D2
- PD9/D1
- PD8/D0
- 5V
- PC0/MREQ
- PC1/M1
- PC4/RFSH
- PB0/IORQ
- PB1/RO
- PB2/MR
- PC5/HA/T
- PC6/INT
- PC7/M1
- PD15/BUSRQ
- PA2/BUSAK
- PD8/READY
- PD8/BRST
- PD9/RSET
- PD14/RCHEN
- PD8/ROMDIS
- PD13/RMWRD
- PD1/RMWDIS
- NC
- NC
- PD11/EXP
- GND
- PD5/CLK
- 50
- 49

- GND
- E-TX
- E-RX
- I09
- I04
- I06
- I02
- HCS
- MDC
- I016
- HCLK
- HMISO
- HMOSI
- +3V3
- TX
- RX
- GND
- REST
- T00
- TCK/SWCLK
- TMS/SWDIO
- TDI
- TRST
- V3



SanDisk  
4GB





spinpoint.org

BAT

+3V3 TRST TOI TMS/SWDIO TCK/SWCLK T00 RST GND RX TX +3V3 HMOSI HMISO HCLK IO16 ADC MCS IO2 IO8 IO4 IO5 E-RX E-TX GND



R2 R1 R19 R21 R23 R25 R27 R29 R3 R13 R20 R22 R24 R26 R28 R30 C11

C15 R11 C16 C17 R10 C8 C7 C14

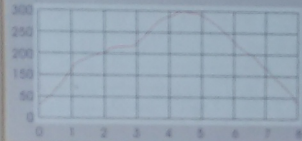
M4 Board rev. 2.0 - 2016  
Hardware Shoppen ApS

PD5 GND PB11 NC NC PD1 PB13 PD0 PB14 PB9 PB8 PA8 PA2 PB15 PC7 PC6 PC5 PB2 PB1 PB0 PC4 PC1 PC0 5V PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PE0 PE1 PE2 PE3 PE4 PE5 PE6 PE7 PE8 PE9 PE10 PE11 PE12 PE13 PE14 PE15 GND NC

ESP-12-F Q10 L4  
LK SI IO10 IO9 50 0



INFRARED IC HEATER

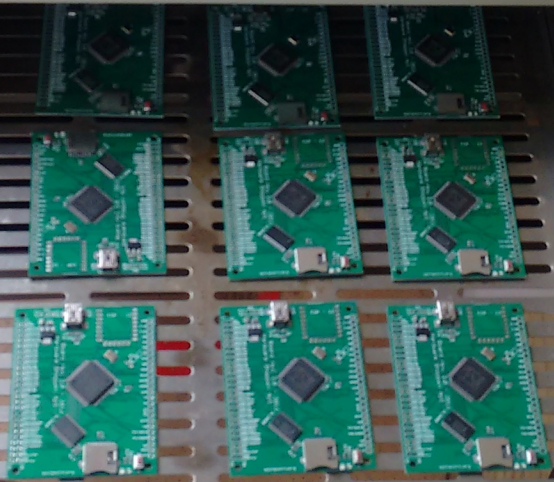


T-962A

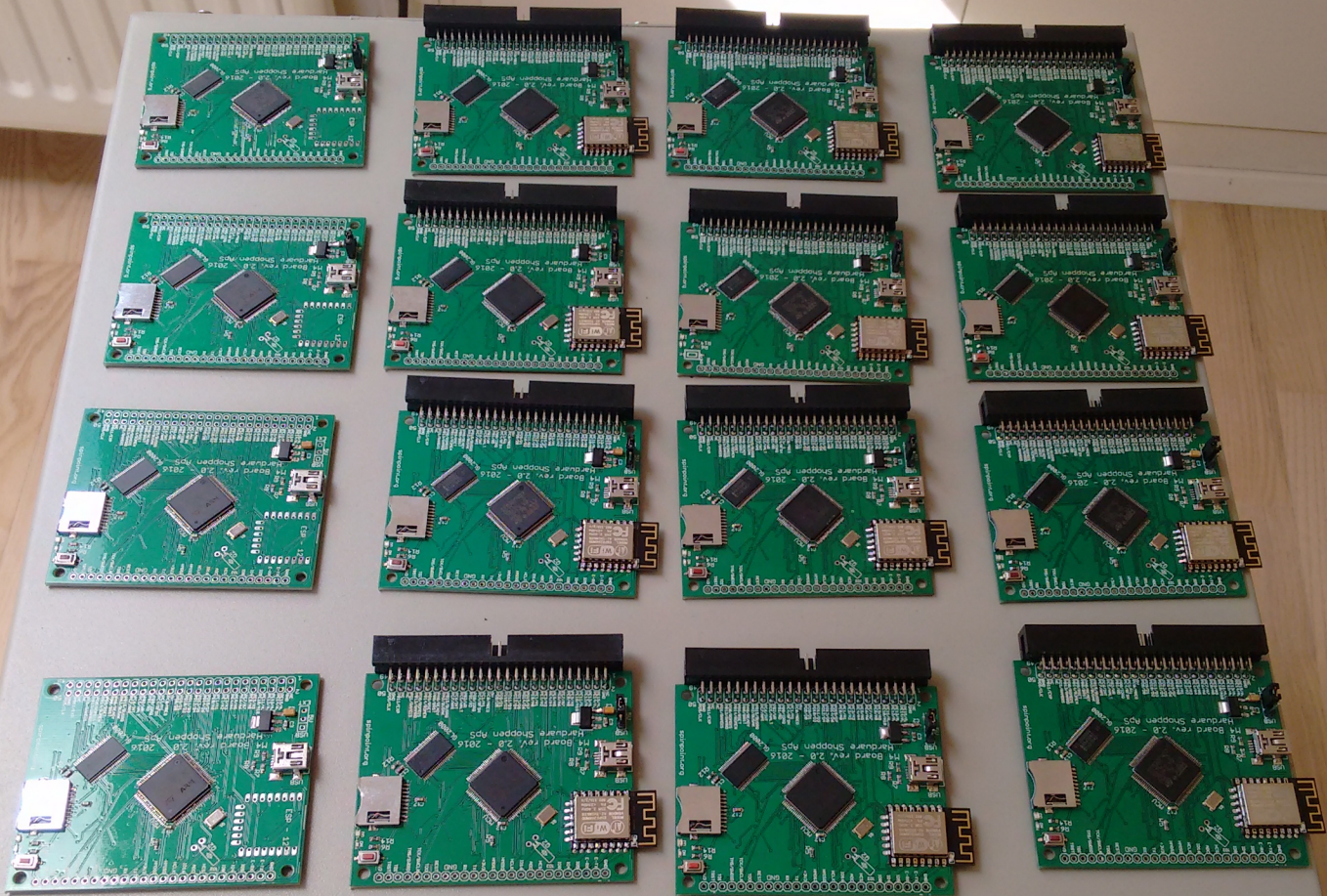
<http://www.tech168.cn>



Fan  
Lamp







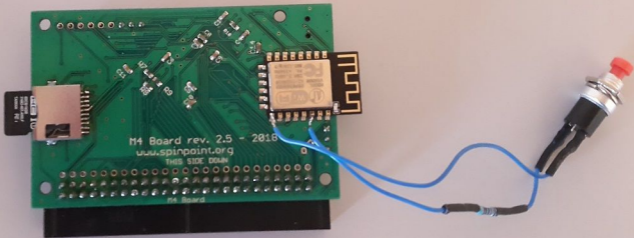
INFRARED IC HEATER

Fan









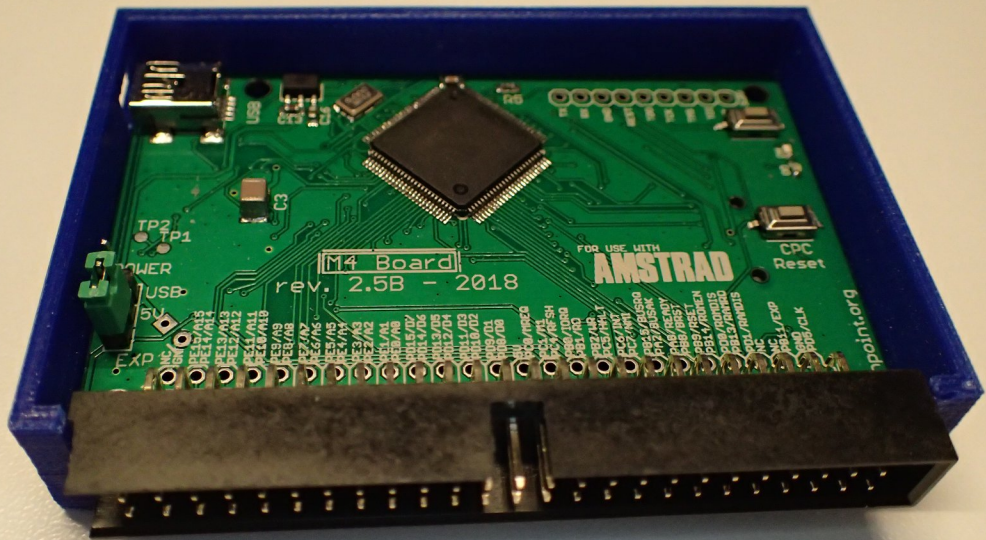
M4 Board rev. 2.5 - 2018

[www.spinpoint.org](http://www.spinpoint.org)

THIS SIDE DOWN

M4 Board





M4 Board

rev. 2.5B - 2018

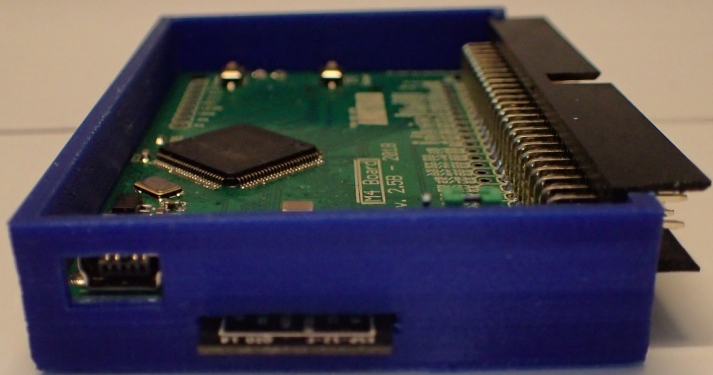
FOR USE WITH  
**AMSTRAD**

CPC  
Reset

- EXP
- 5V
- MC
- PE13/A15
- PE14/A14
- PE13/A13
- PE12/A12
- PE14/A11
- PE10/A10
- PE8/A8
- PE8/A8
- PE7/A7
- PE6/A6
- PE5/A5
- PE5/A5
- PE4/A4
- PE3/A3
- PE2/A2
- PE1/A1
- PE15/D2
- PE14/D6
- PE13/D5
- PE12/D4
- PE11/D3
- PE10/D2
- PE9/D1
- PE8/D0
- PE7/D0
- PE6/MP2B
- PE5/CLK
- PE4/MP SR
- PE3/IO/CSB
- PE2/IO
- PE1/IO
- PE2/MP
- PE5/MP/L
- PE6/INT
- PE7/MP
- PE8/MP
- PE9/MP
- PE10/MP
- PE11/MP
- PE12/MP
- PE13/MP
- PE14/MP
- PE15/MP
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- PE92/MP
- PE93/MP
- PE94/MP
- PE95/MP
- PE96/MP
- PE97/MP
- PE98/MP
- PE99/MP
- PE100/MP

point.org

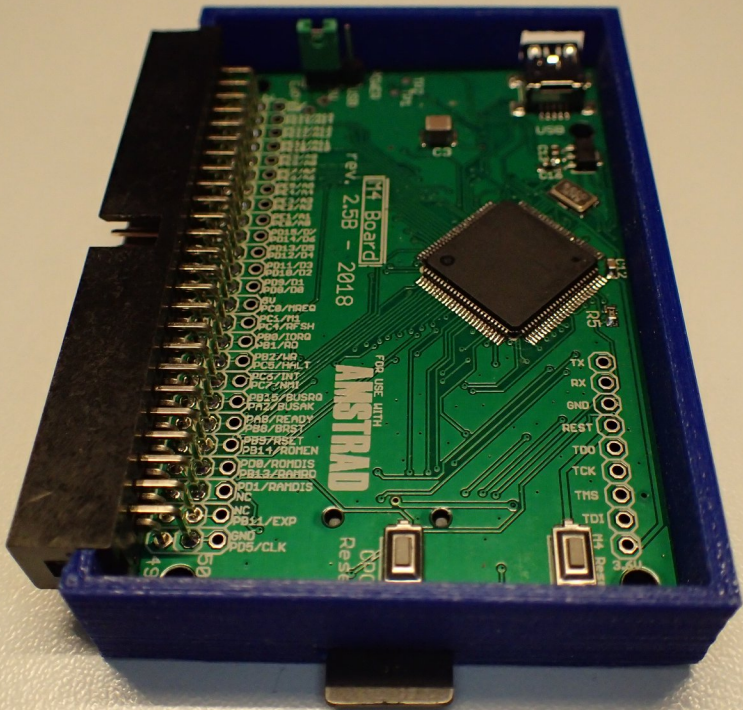












FT4 Board  
rev. 2.5B - 2018

AMSTRAD

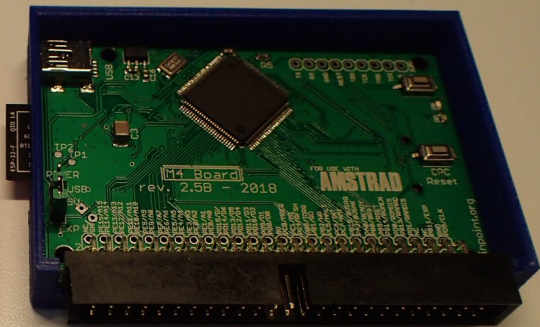
FOR USE WITH

TX  
RX  
GND  
REST  
TDO  
TCK  
TMS  
TDI

P018/DP  
P014/DS  
P013/DT  
P011/DS  
P010/DT  
P08/DS  
P07/TREQ  
P01/RS  
P04/RFSH  
P06/TORQ  
P01/RO  
P02/LR  
P03/HHLT  
P05/INT  
P07/RSI  
P02.5/BUSRQ  
P02/BUSAK  
P06/READY  
P08/BRST  
P05/RESET  
P014/ROMEN  
P08/ROMDIS  
P013/RHRD  
P01/RAHDIS  
NC  
P011/EXP  
GND  
P05/CLK

Reset







M1 BOARD V2.0

M1200

CPC400

Conceptique.fr





M1 Board V2.0

M1 REEF

CPGROM

Conceptique.fr





WUJOTAT®

S--50L-2.54-5  
EDGE CONNECTOR SLOT

2935975H-Y3

M4 Board rev. 2.5C - 2019  
uuu.spinbox.org  
REAR SIDE

Wi-Fi  
MODEL NUMBER  
ESP8266MOD  
FC  
ISM 2.4GHz  
PA 22dBm  
802.11b/g/n

C1

C2

C3

C4

C5

C6

C7

C8

C9

C10

C11

C12

C13

C14

R6

R7

R8

R9

R10

R11

C17

C18

C19

C20

C21

C22

C23

C24

C25

C26

C27

C28

C29

C30

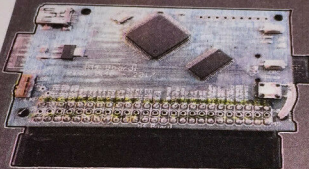
C31

C32

C33

C34

C35



**AMSTRAD**



**M4 WiFi  
BOARD**



**AMSTRAD**

**M4 WiFi  
BOARD**



10000000000000



Trioton  
MH Front-end 2.0.2

```
<-  
-> LMH  
[ GAMES  
[ HOMEBREW  
[ MH BOARD MANUAL  
[ MIS JUEGOS  
[ GOMS  
[ TOP 18 AMSTRAD  
[ EMULADOR PC  
[ FAVORITOS  
[ SYSTEM 1  
[Cursor/Joystick] Select file  
Select page  
[Return/Fire 1] Run/Enter/View  
[Del/Fire 2] Exit directory  
View as text  
Search  
DSK to disc  
Quit
```

1/18

mH



# M4 Board – Amstrad CPC WiFi, recap 2016

 [www.spinpoint.org/2016/12/31/m4-recap-2016/](http://www.spinpoint.org/2016/12/31/m4-recap-2016/)

The interest for this project turned out to exceed anything I ever imagined and lots of units have been produced.



Showing some of the batches that was made, in my “garage” production.

The firmware was vastly improved, since the initial version.

Some key points:

- Romboard was extended to 32 roms & ability to remap lowerrom
- Autoexec.bas execution on start up
- Long filename handling
- NETAPI for native applications

Supporting the entire Amstrad CPC range from 464 to 6128 plus.

Firmware updates are available here:

[http://www.cpcwiki.eu/index.php/M4\\_Board](http://www.cpcwiki.eu/index.php/M4_Board)

And a link to latest beta firmware, documentation and

development info can be found here:

<http://www.spinpoint.org/cpc/m4info.txt>

Software:

I released the source code of the z80 assembler part of the M4

DOS here:

<https://github.com/M4Duke/m4rom>

With this anyone can make their own custom build if desired and replace my build simply by copying M4ROM.BIN to the root of their sd card.





Other examples, handling the NETAPI from your applications:

<https://github.com/M4Duke/M4examples>

And of course the cpcxfer program, to conveniently transfer files between pc and the amstrad cpc over WiFi via commandline.

<https://github.com/M4Duke/cpcxfer>

**Prodatron** wrote support for M4 in his great SymbOS (<http://www.symbos.de>)

Giving you the ability to chat on IRC, download files via wget, copy files between floppies & sd and much much more.

Very impressive.

Look into this thread for download and installation details:

<http://www.cpcwiki.eu/forum/applications/symbos-cpc-updates-and-infos/msg137192/#msg137192>

A nice video for the CPC strong hold in Spain by **Professor Retroman**.

## **2017**

There is still so much more that could be added in the future.

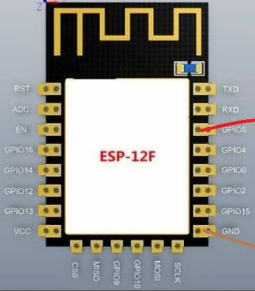
Keep an eye on this thread for future updates & info.

<http://www.cpcwiki.eu/forum/amstrad-cpc-hardware/amstrad-cpc-wifi/>

Thanks all for your support.

Happy new year!

– Duke



M4 Board Hack button







128K ORDENADOR PERSONAL

AMSTRAD

M4 12.000

CPC







**AMSTRAD CPC 464**

**AMSTRAD CPC 464**

AMSTRAD CPC 464

Model	CPC 464
Processor	Z80
Memory	128K
Storage	5.25" floppy disk
Display	Composite video
Keyboard	Standard
Mouse	Optional
Price	£149.95

**CPC 464**

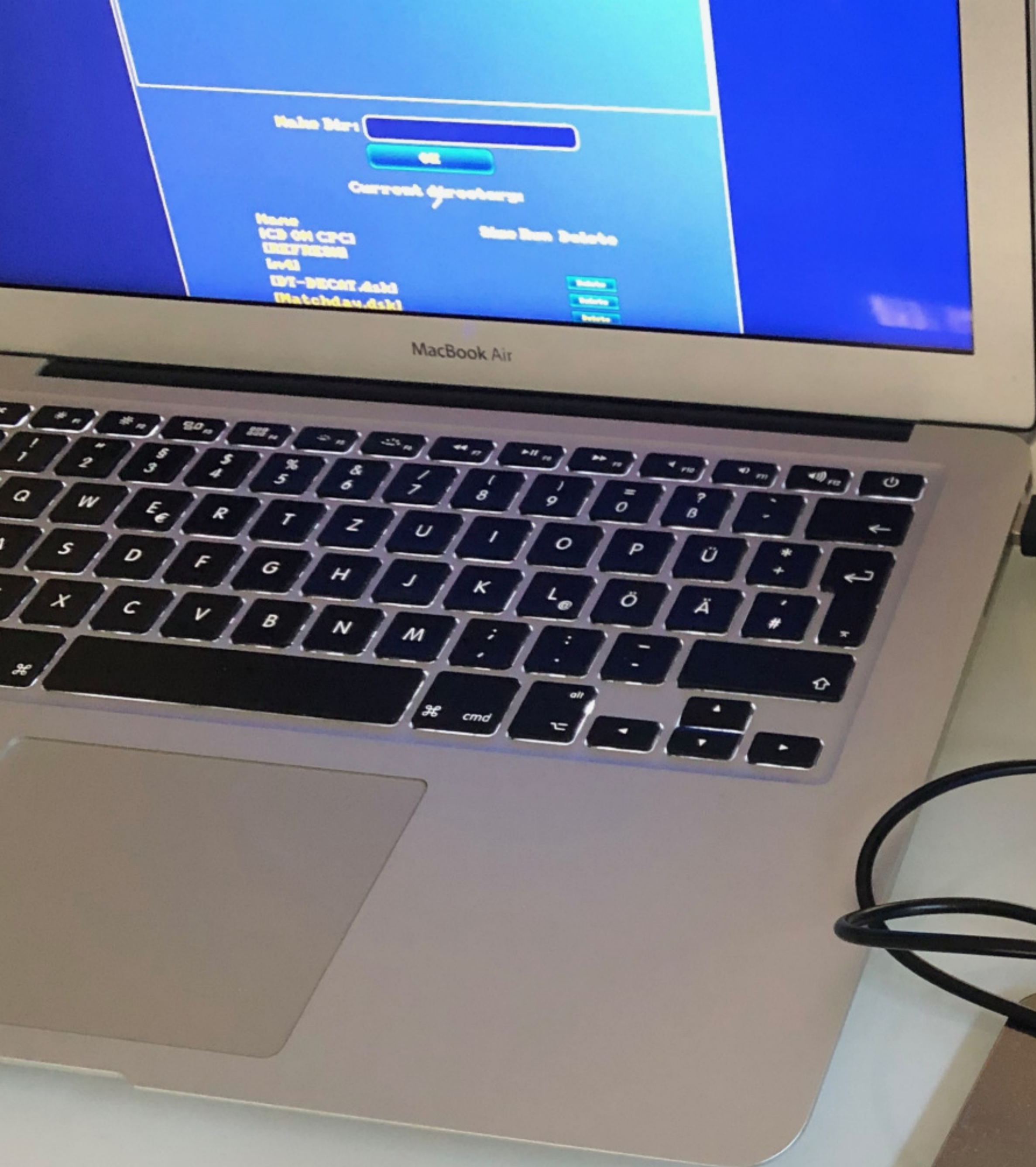
**M4** WIFI & SD CARD

FOR

**CPC**

**AMSTRAD**







Schneider 128K Microcomputer (v3)

©1985 Amstrad Consumer Electronics plc  
and Locomotive Software Ltd.

BASIC 1.1

M4 Board V2.0.5B12

Ready

Inetstat

Signal: 0xC4

IP: 192.168.2.180

Netmask: 255.255.255.0

Gateway: 192.168.2.1

DNS1: 0.0.0.0

DNS2: 8.8.8.4

MAC: 5C:CF:7F:88:7B:B8

Ready





16GB  
CLASSIC

R6  
R1

C11  
R7  
R8  
R9

C7  
C8  
C9  
C10  
C13

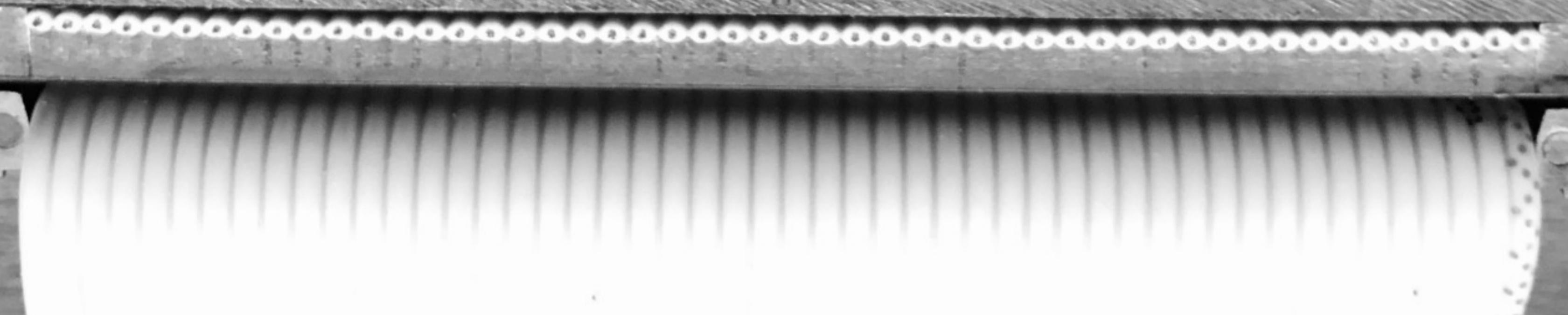
C14  
C2

MODEL ESP8266MOD  
VENDOR AI-THINKER  
ISM 2.4GHZ  
PA +25dBm  
802.11b/g/n  
AI  
Wi-Fi  
FC

M4 Board rev. 2.5C - 2019  
www.spinpoint.org  
REAR SIDE

M4 Board

50P





# Settings

Files

Roms

Control

Settings

## General

Time/Date

Timezone

2

Set Zone

NTP server

ntp.inet.tele.dk

Set server

Netbios name

CPC6128

Set name

SSID

Password

Set AP

## Network

Use DHCP



Set

IP number

192.168.2.180

Subnet

255.255.255.0

Gateway

192.168.2.1

Set network

DNS 1

0.0.0.0

DNS 2

8.8.8.4

Set DNS

MAC address

5C:CF:7F:88:7B:B8

Version

System software

2.0.5