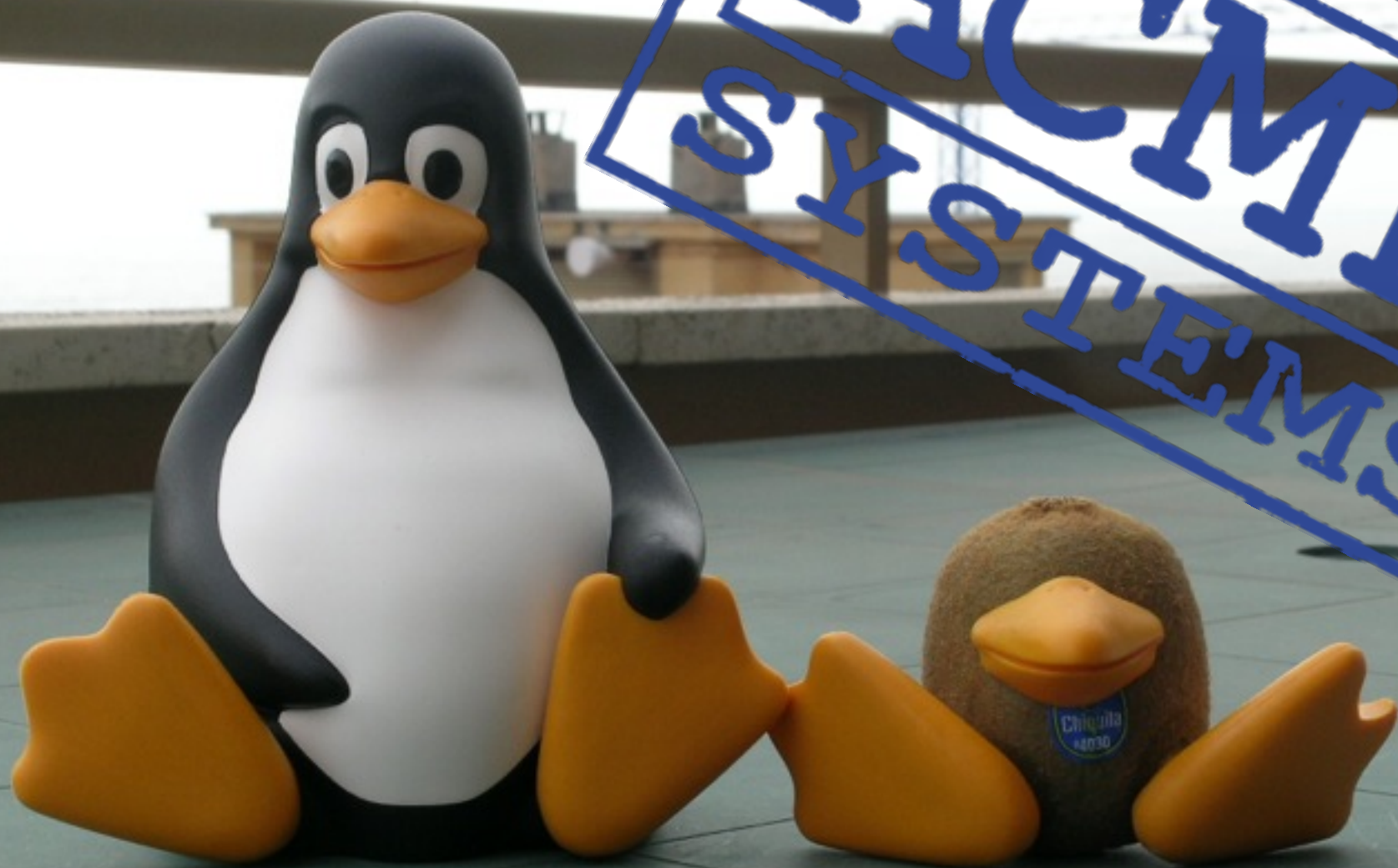




Roberto ASQUINI Sergio TANZILLI

Acme Systems srl

Profilo Aziendale

- 10 anni di attività
- Progettazione interna
- Più fornitori per gli stessi prodotti
- Montaggio in sede
- Vendita diretta in 50 paesi
- 80% mercato estero
- Sede unica a Ladispoli (RM)
- Rete di sviluppatori HW & SW indipendenti



Attività primaria

Produzione di moduli CPU per prototipazione rapida e produzione

- Disegno concettuale originale (pinout, footprint, ecc)
- Progettazione hardware (schema e PCB)
- Porting software di base (Linux)
- Montaggio (Linea per montaggio SMD interna)
- Divulgazione (Web)
- Marketing (Web)
- Vendita (Web)
- Supporto alla progettazione
- Mantenimento in produzione per almeno 10 anni
- Materiale a stock

Tecnologie usate

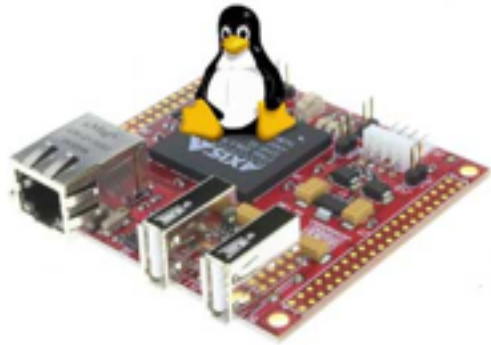
- CPU Atmel serie ARM9 e CORTEX A5 (G20, G25, A5)
- Componenti SMD
- Package BGA
- PCB fino a 10 layer
- Altium Designer
- Linux 3.16.x (Debian)

Partner certificati 

Prodotti storici



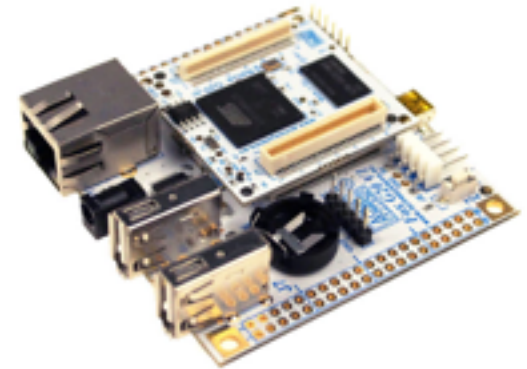
2005



2007



2010



FOX Board MCM
Axis Etrax 100LX MCM

FOX Board LX
Axis Etrax 100LX

FOX Board G20
Atmel AT91SAM9G20

52.000 pezzi venduti ad oltre 2.000 clienti

Prodotti attuali



2012

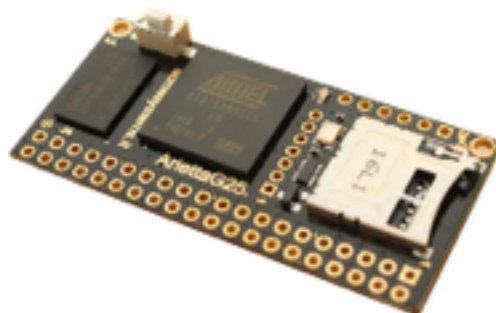


Aria G25

Atmel AT91SAM9G25

12.000 pezzi
500 clienti

2014



Arietta G25

Atmel AT91SAM9G25

2.000 pezzi
600 clienti

2014



Acqua A5

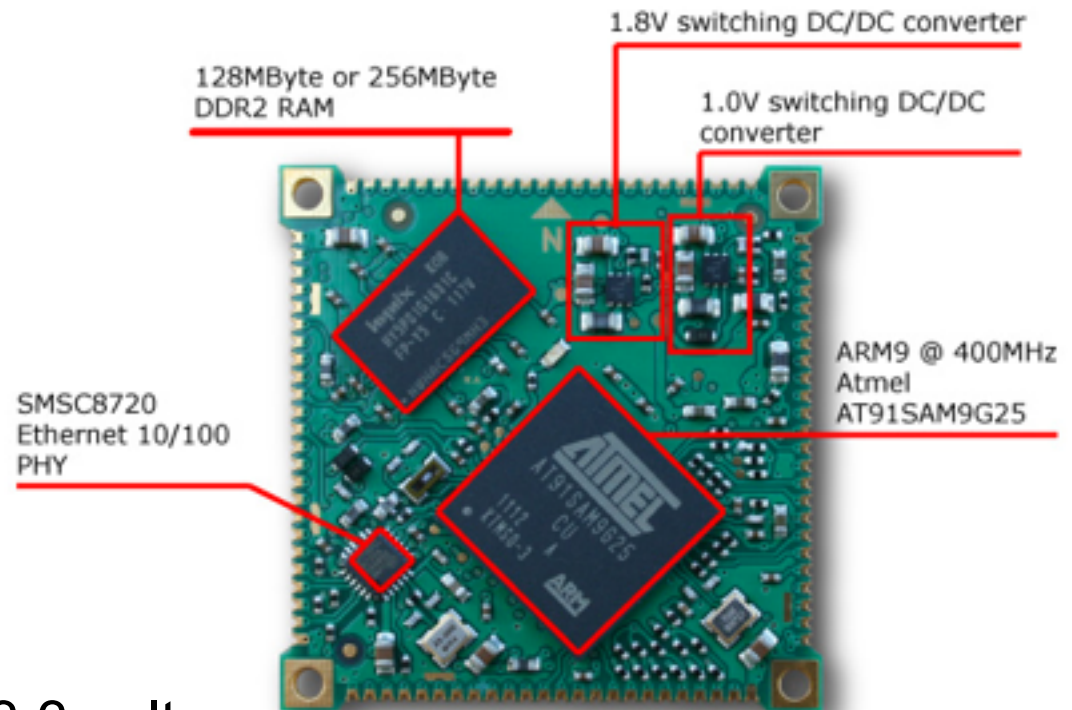
Atmel SAMA5D3x

500 pezzi
50 clienti

Aria G25

Linux embedded system on module

- Modulo SMD
- Dimensioni 40x40mm
- 96 pin a passo 1.27mm
- Atmel AT91SAM9G25
- ARM9 @ 400Mhz
- 128 o 256 MB RAM
- Ethernet PHY a bordo
- Alimentazione singola a 3.3 volt

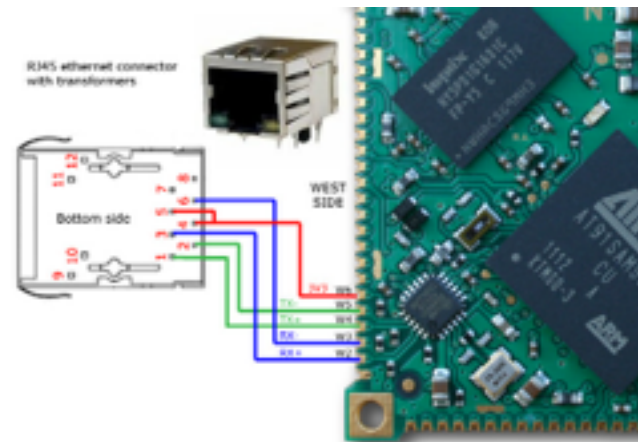
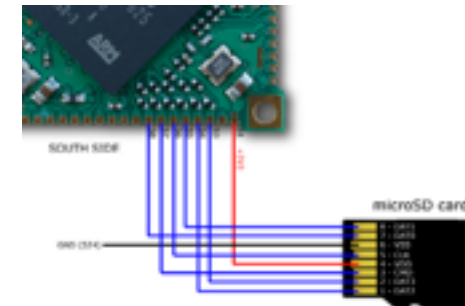
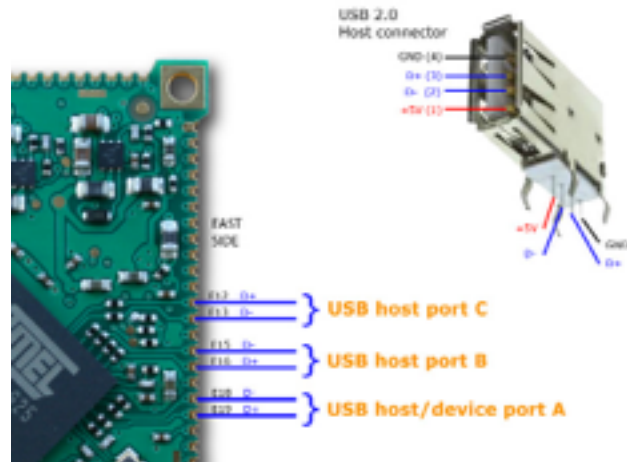


Documentazione

www.acmesystems.it



- Documentazione su web ad accesso gratuito ed anonimo
- Schemi elettrici del modulo e delle schede di valutazione
- Pinout, profilo termico, EMI
- Dimensioni meccaniche
- Modelli Step e DWG
- Componenti Altium



Software di base

- Linux Kernel 3.16.x, Debian 7.6
- Bootstrap da microSD
- Immagini pronte per la generazione della microSD
- microSD da 4,6,8,16,32 GB già pronte
- Istruzioni per installare Kernel e Rootfs dai Sorgenti
- Driver per migliaia di dispositivi (display, chiavette USB, Webcam, I2C, SPI, seriali, 1W, ecc.)
- Tool di sviluppo su PC gratuiti
- Tutorial ed esempi
- Sorgenti su GitHub
- Forum, Twitter, Facebook, Google+



Linguaggi

tools, packages, dcc

- C, C++, Python, Perl, Node JS, ecc.
- Compilazione on-board
- Sviluppo da remoto via LAN
- Multitask, multithread e multiuser
- Oltre 4.000 package open source già compilati e scaricabili gratuitamente dai server Debian su scheda



Applicazioni

Sintetizzatore polifonico (UK)



Applicazioni

Controllo presenze (Sudafrica)



*Processing
INSIDE*





INGV
Sezione di Napoli

OSSERVATORIO VESUVIANO



EasyWash



EBG
energy equipment



WashTec

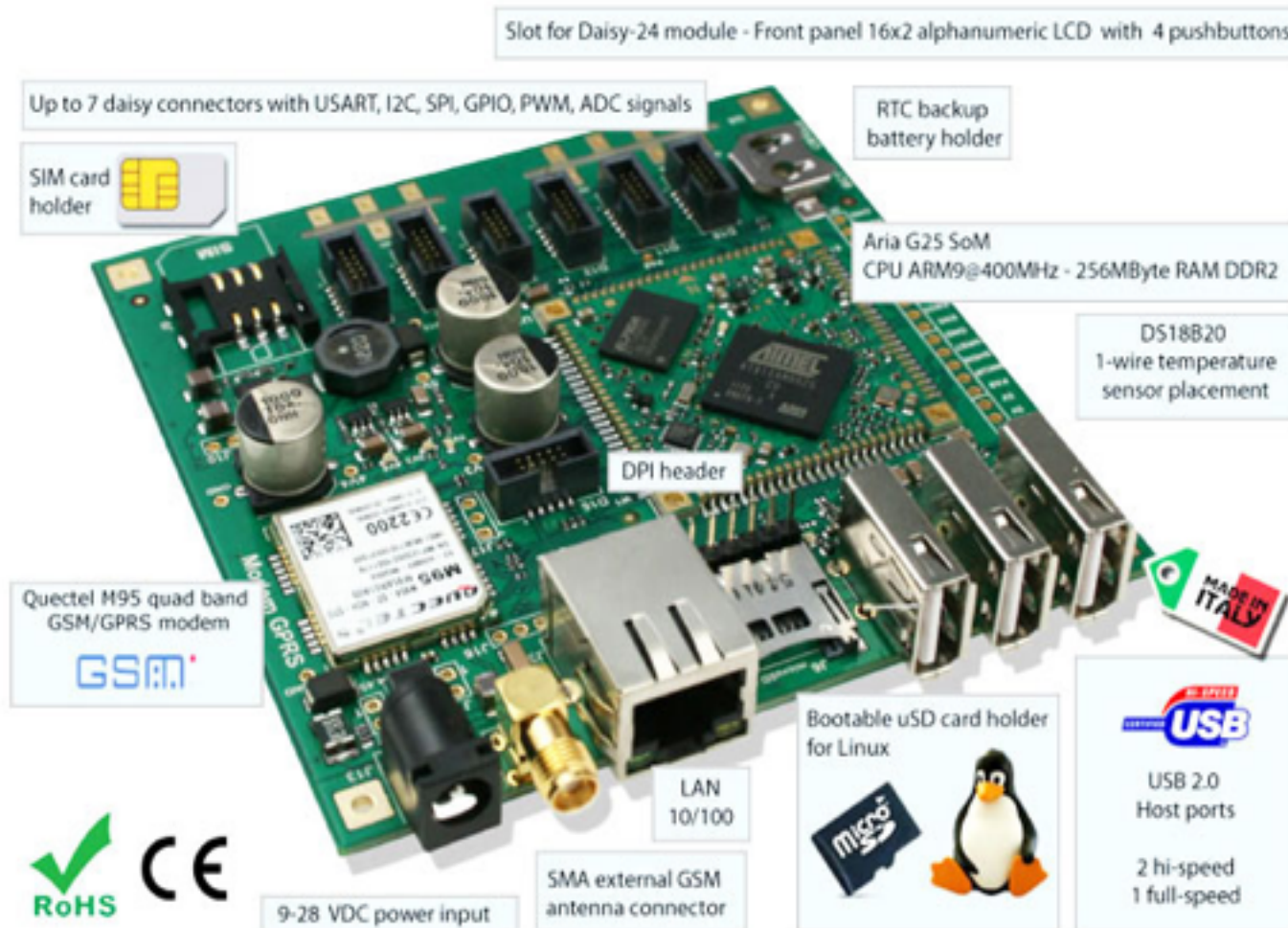
SMS FoxBox

Gateway SMS - MMS



Terra board

Scheda per prototipazione rapida e piccole produzioni



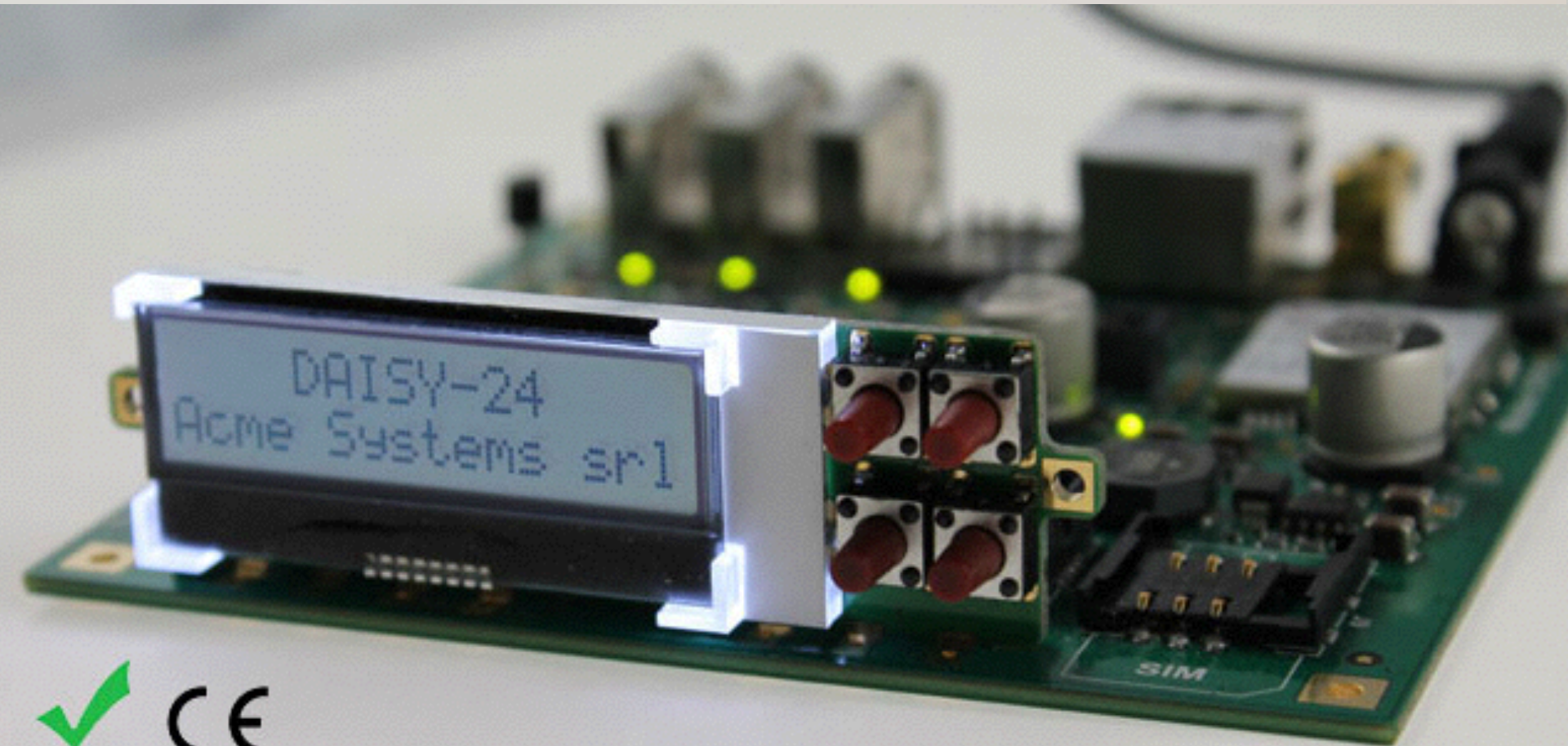


✓
RoHS

CE



ACME
SYSTEMS

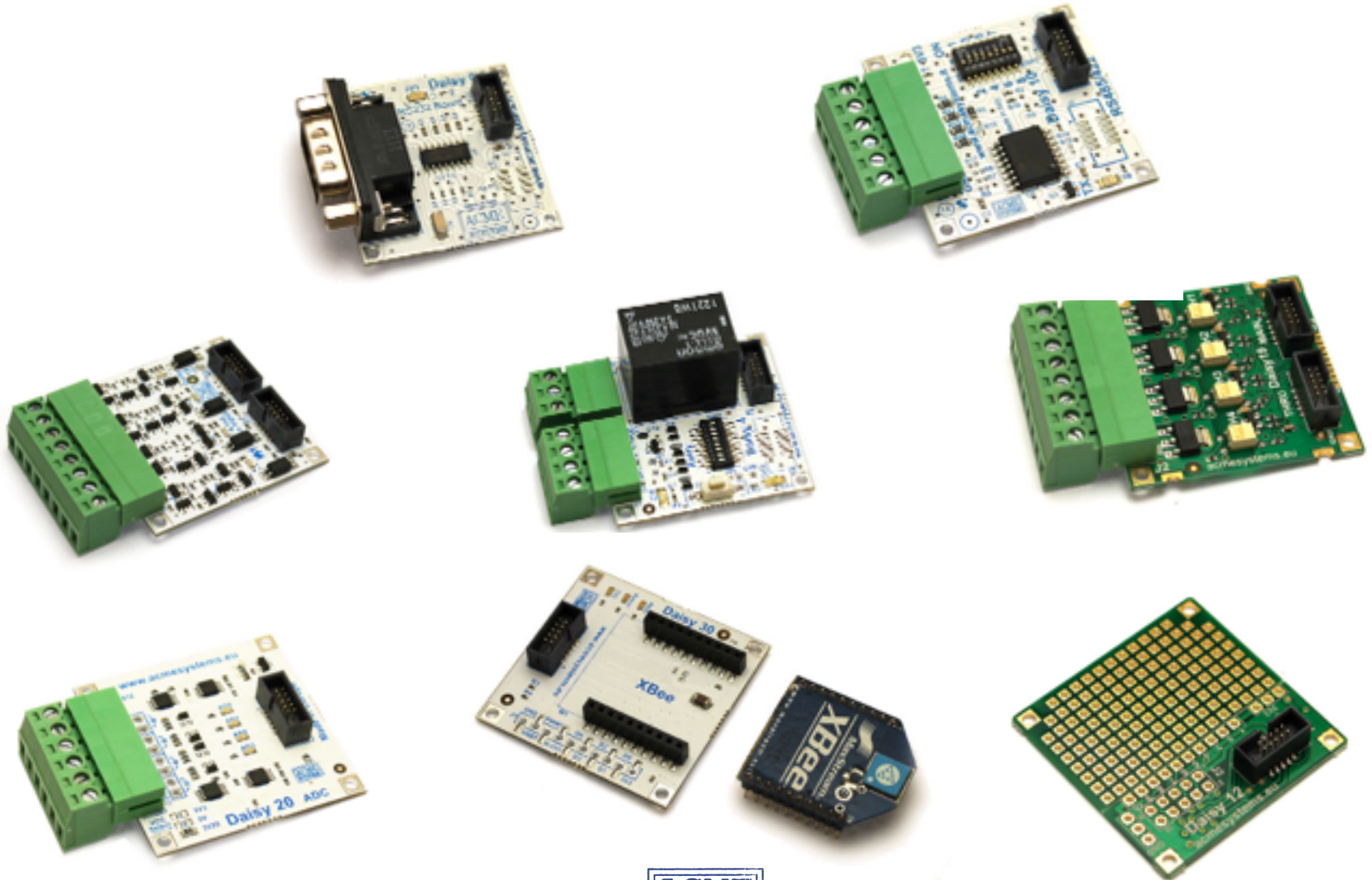


✓
RoHS

CE

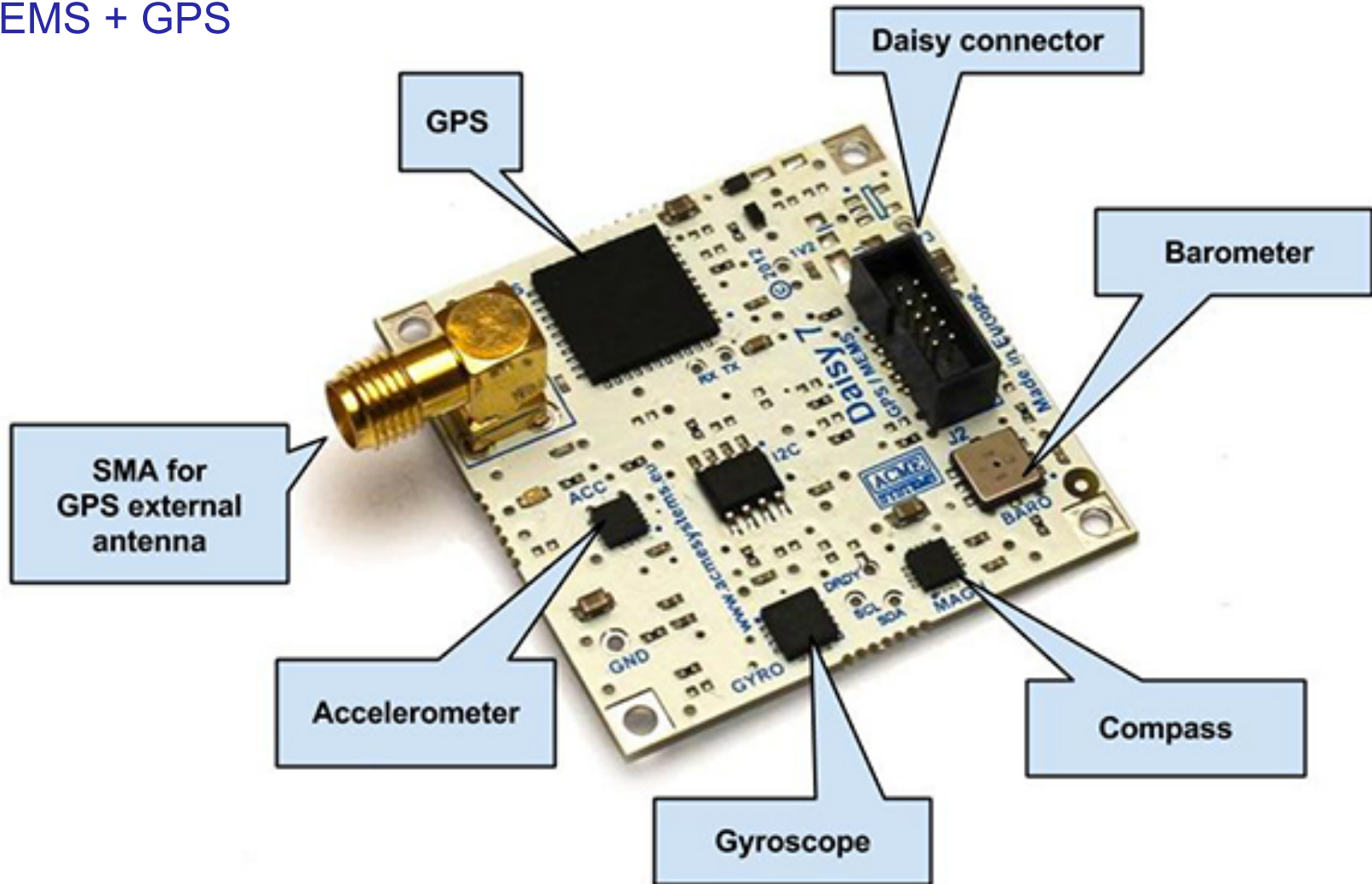
Moduli Daisy

Interfacce modulari per prototipazione rapida



Daisy-7

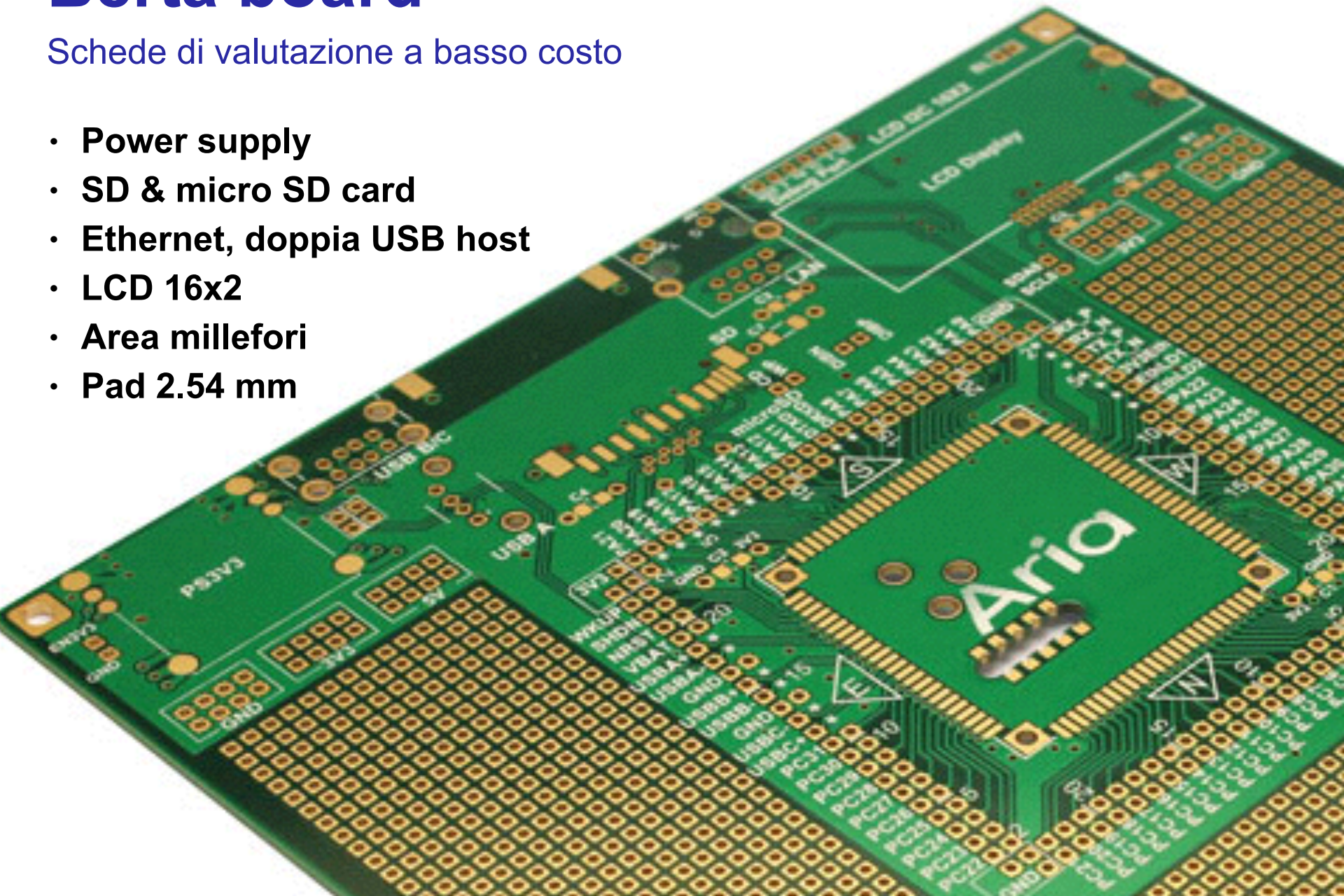
MEMS + GPS



Berta board

Schede di valutazione a basso costo

- Power supply
- SD & micro SD card
- Ethernet, doppia USB host
- LCD 16x2
- Area millefori
- Pad 2.54 mm



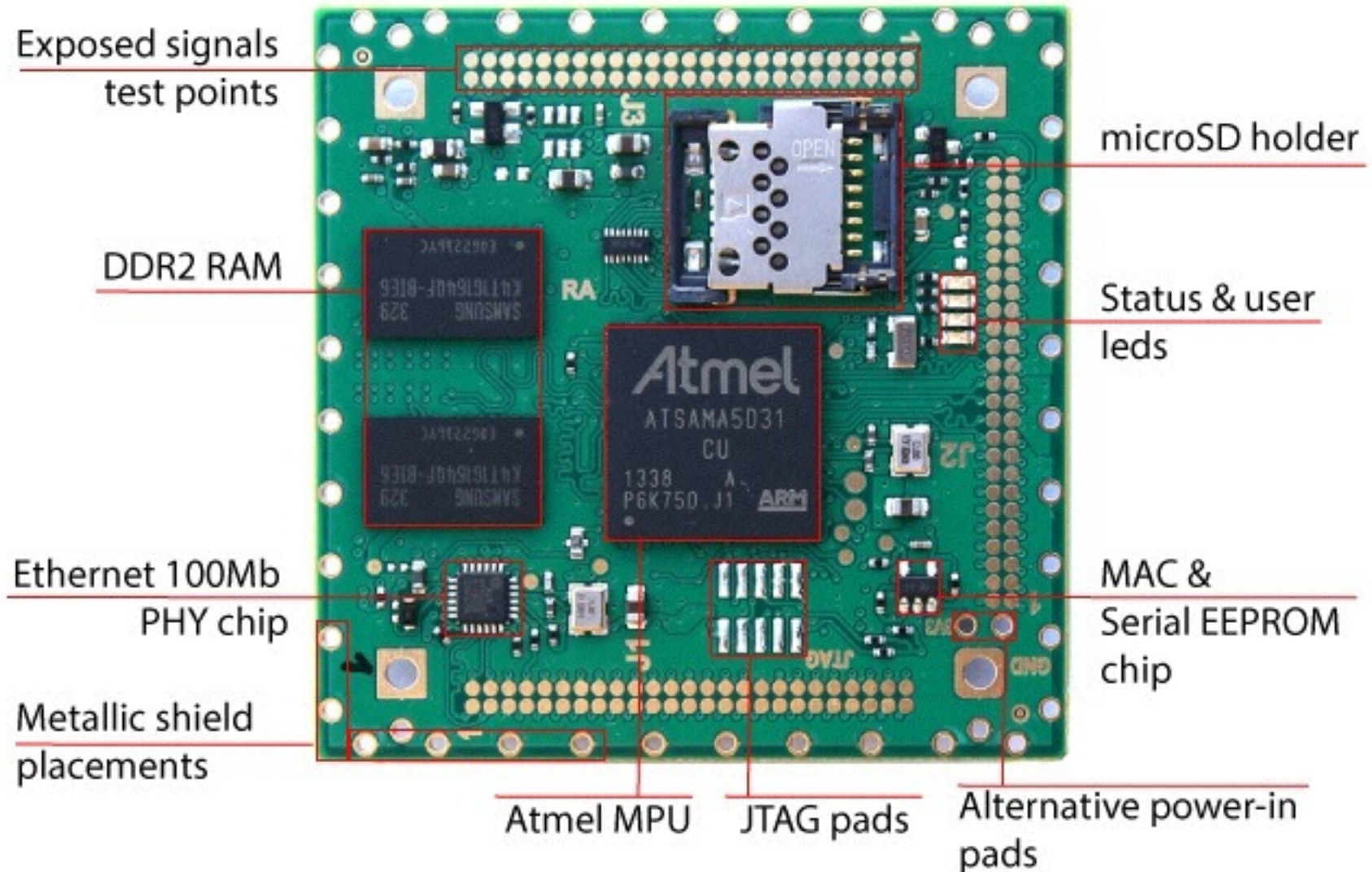
Acqua A5

Linux embedded system on module

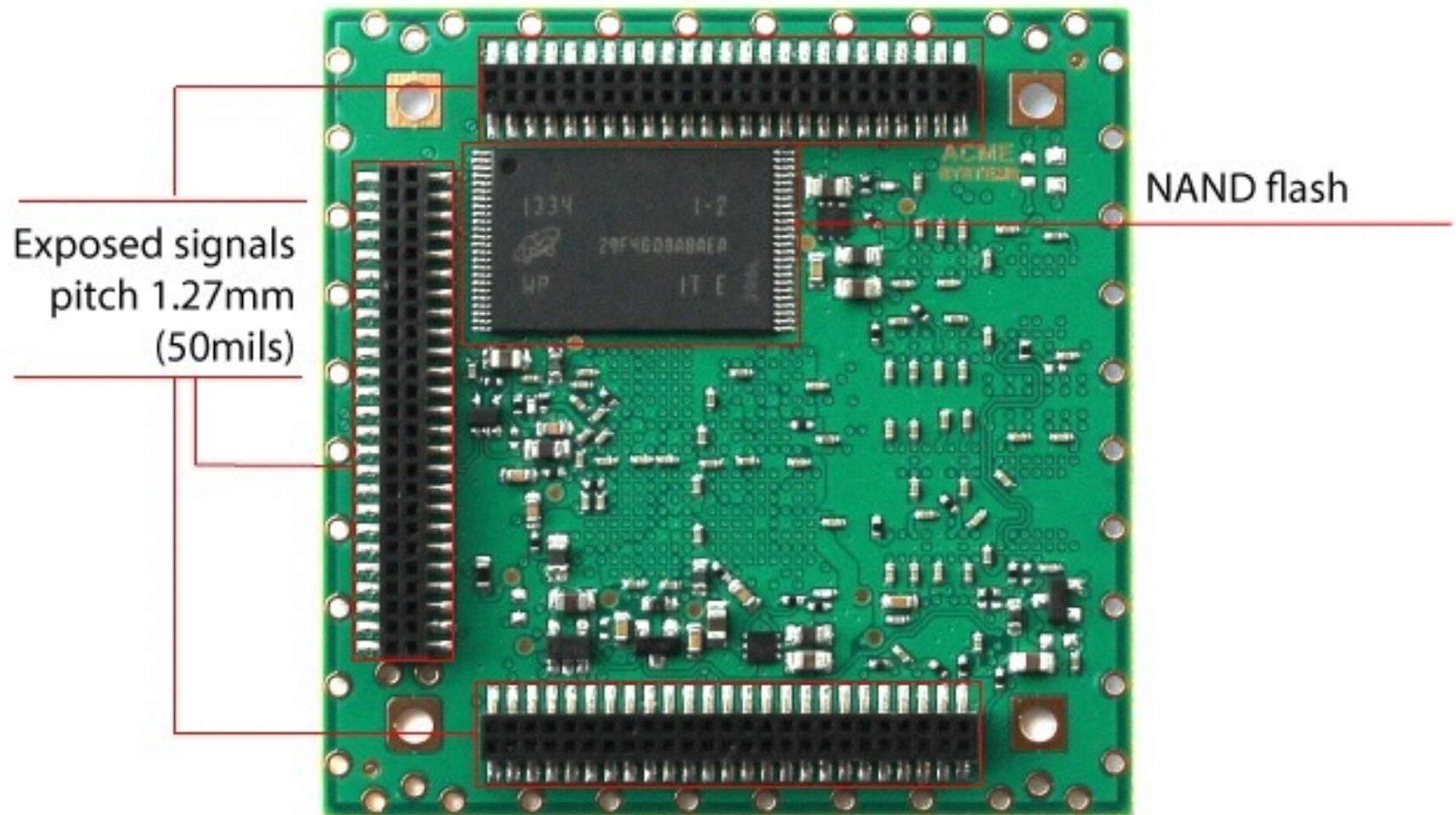
- **Atmel SAMA5D3x**
- **Cortex A5 @ 533 MHz**
- **MicroSD e NandFLASH**
- **Ethernet PHY a bordo**
- **Alimentazione 3.3 volt**
- **256 o 512MB di RAM 32 bit**
- **3 connettori 50 pin passo 1.27mm**
- **MAC address e Serial ID univoco**
- **I2C, USART, SPI, TFT RGB, GPIO, ADC, PWM**

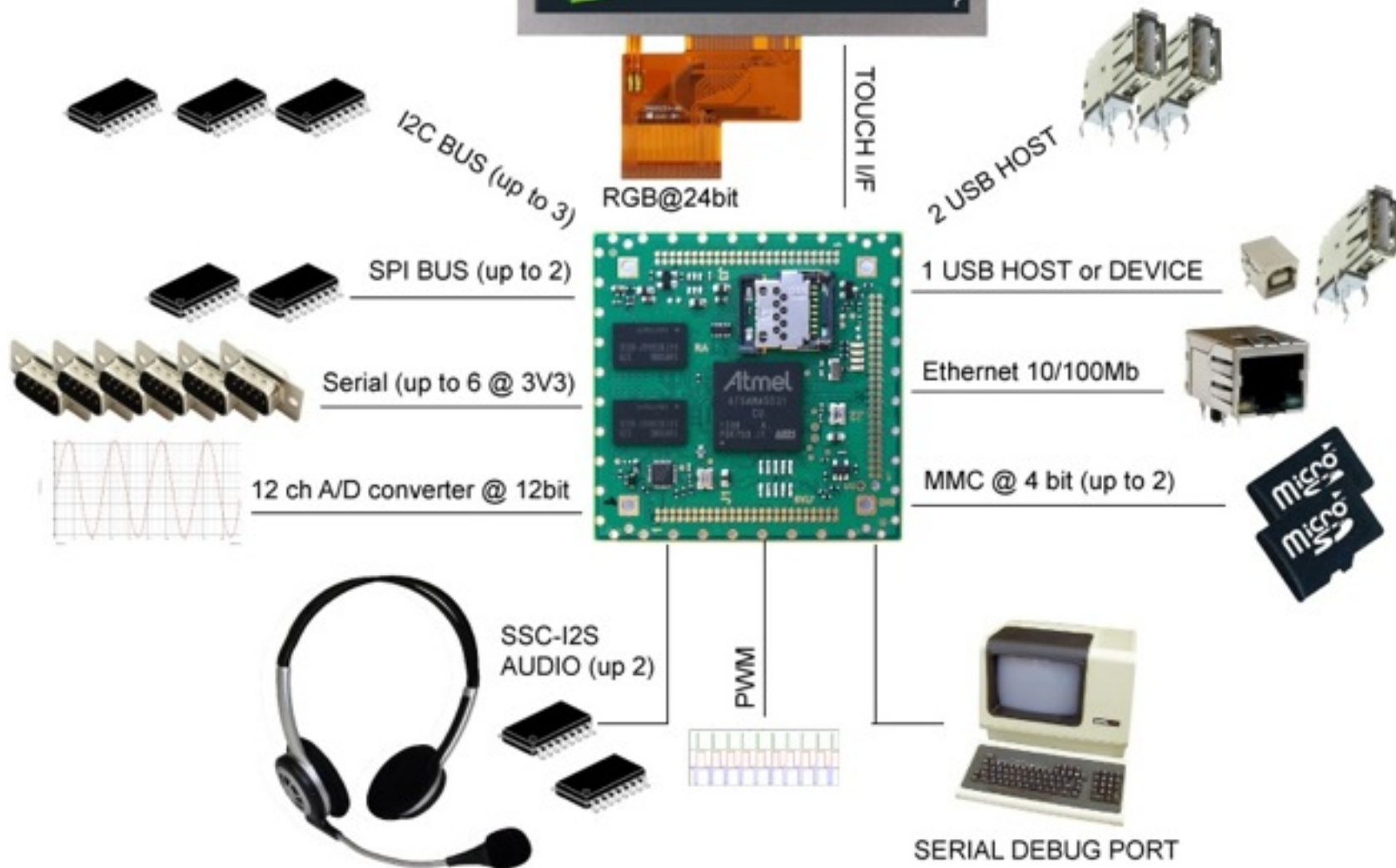


Top side



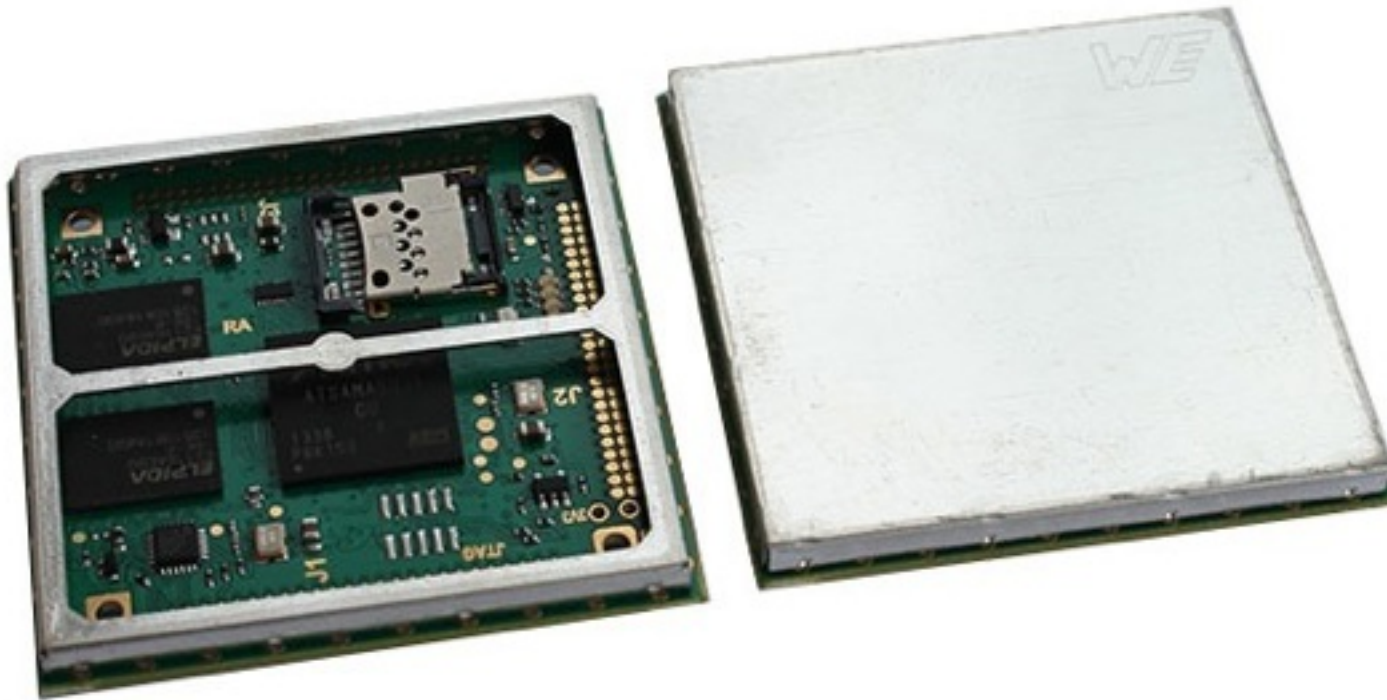
Bottom side





Shield metallico

Per applicazioni in ambienti con elevate interferenze



Berta A5 basic

Scheda di valutazione a basso costo

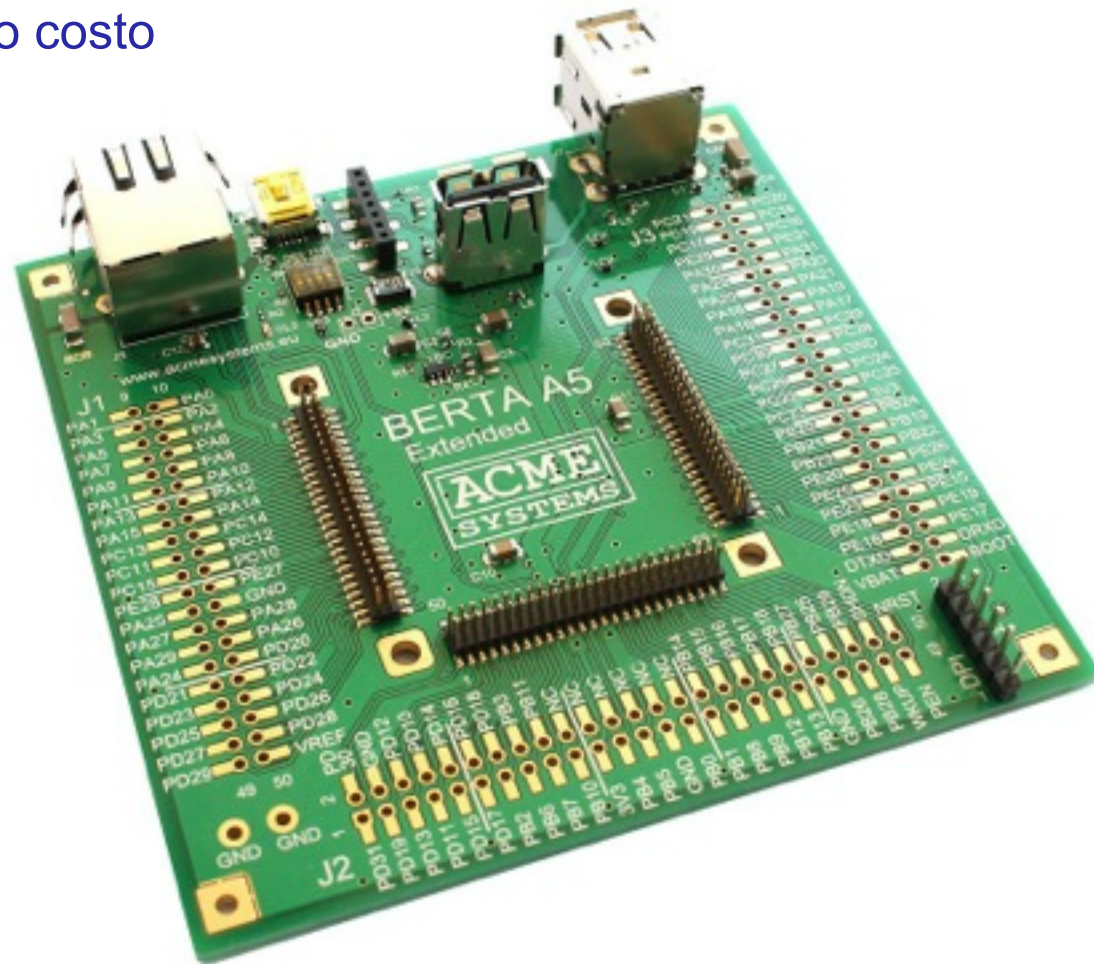
- Breakout board minimale
- Alloggiamento per Acqua A5
- Tutte le linee su pad passo 2.54mm
- Pad per porta di debug
- Dimensioni: 10x10 cm
- Area millefori



Berta A5 extended

Scheda di valutazione a basso costo

- Tutte le linee non cablate su pad passo 2.54mm
- Ethernet 10/100
- Doppia USB host
- Slot WiFi o terza USB o USB client
- Porta di debug
- Dimensioni: 10x10 cm
- Schema elettrico libero



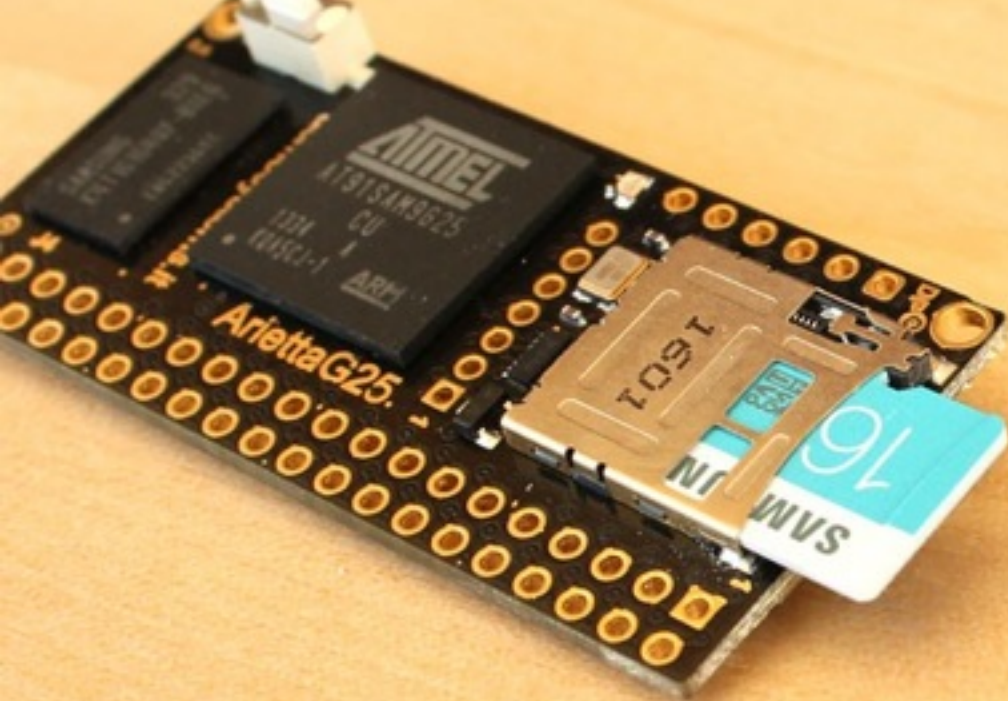


Berta A5 LCD Scheda di valutazione a basso costo

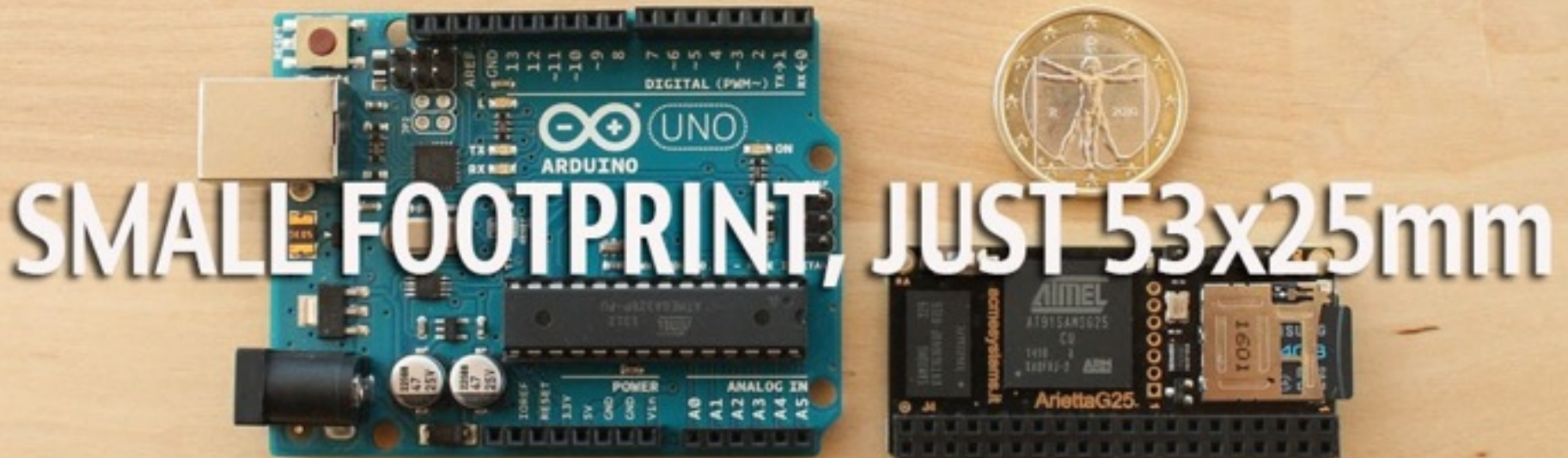
- LCD 4.3 o 5 o 7 pollici touch resistivo
- Ethernet 10/100, doppia USB host, Slot WiFi o terza USB host o USBclient, porta di debug
- Dimensioni: 10x22.5 cm
- Schema elettrico libero

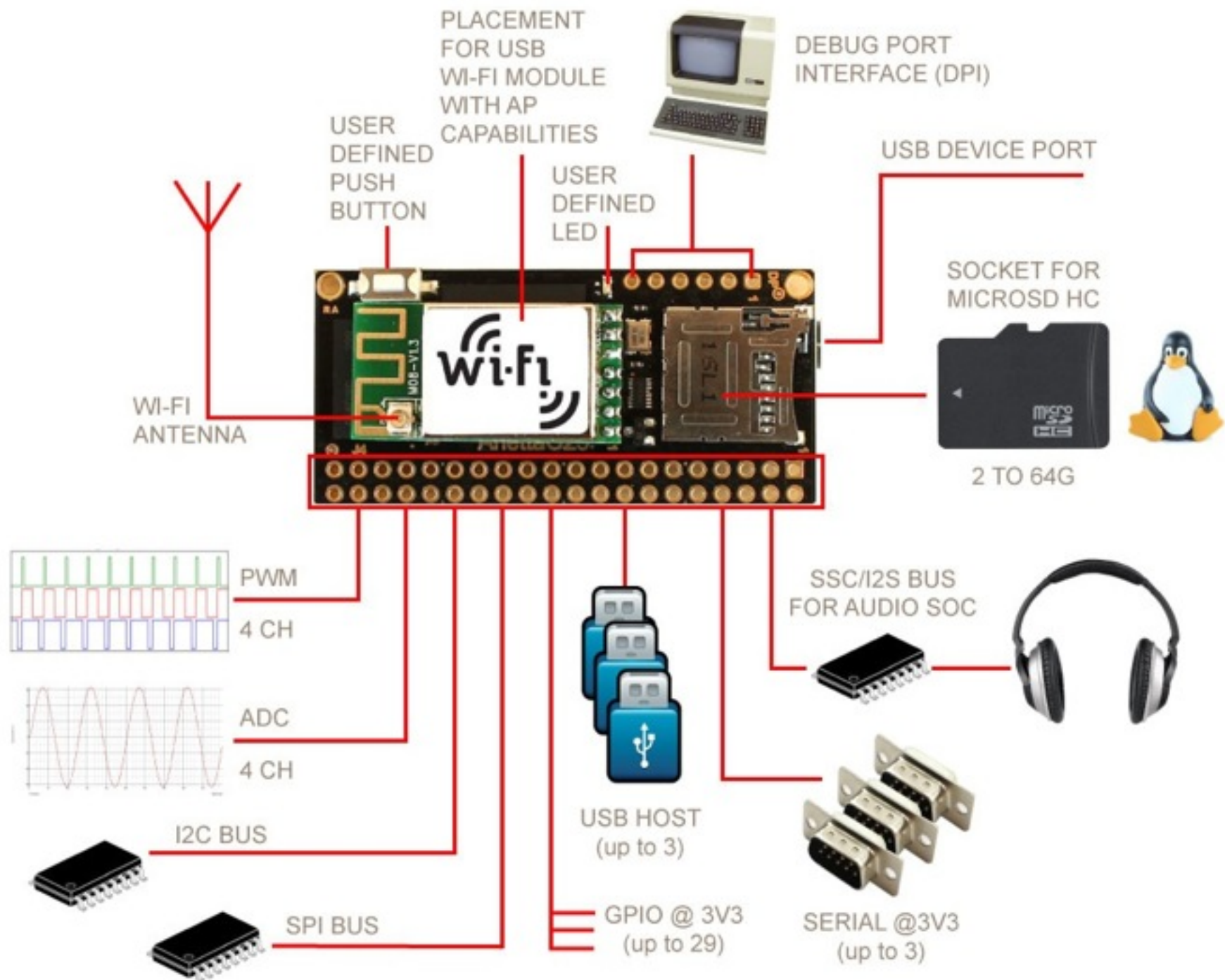
Arietta G25

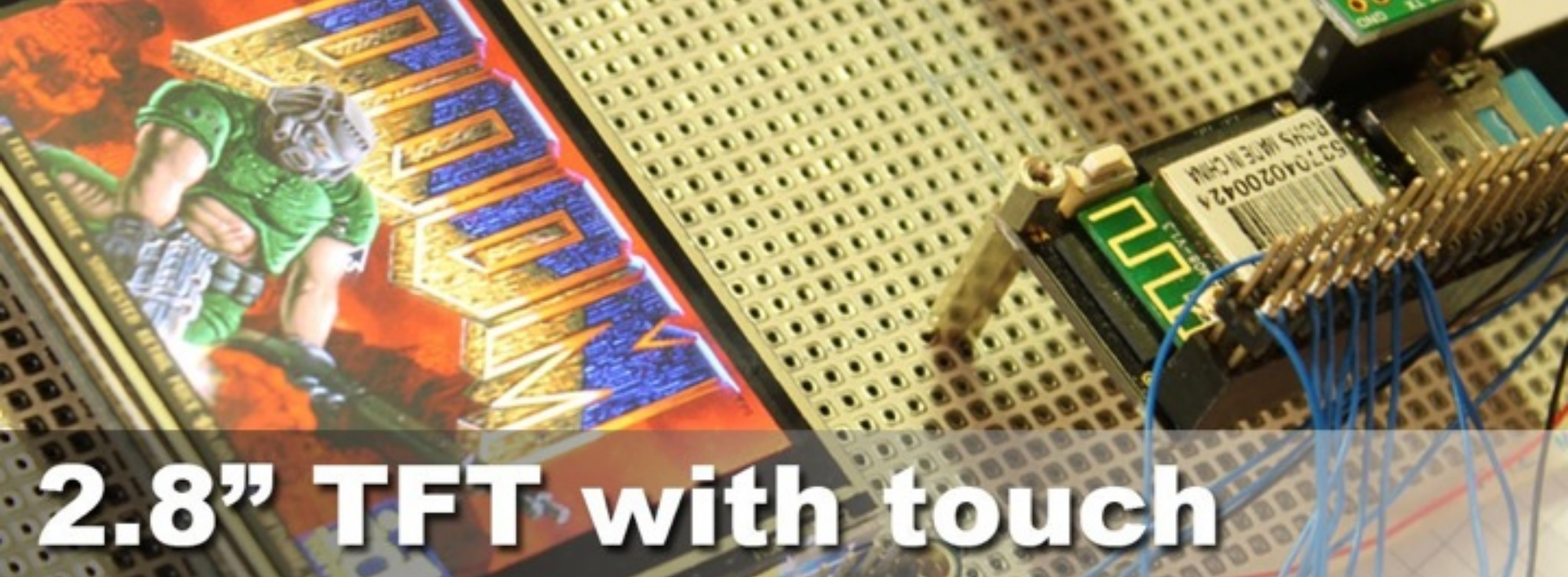




- 40 pad a passo 2.54mm
- Atmel AT91SAM9G25
- ARM9 @ 400Mhz
- 128 o 256 MB of RAM
- Alimentazione singola a 5 volt
- Socket microSD fino a 64GB



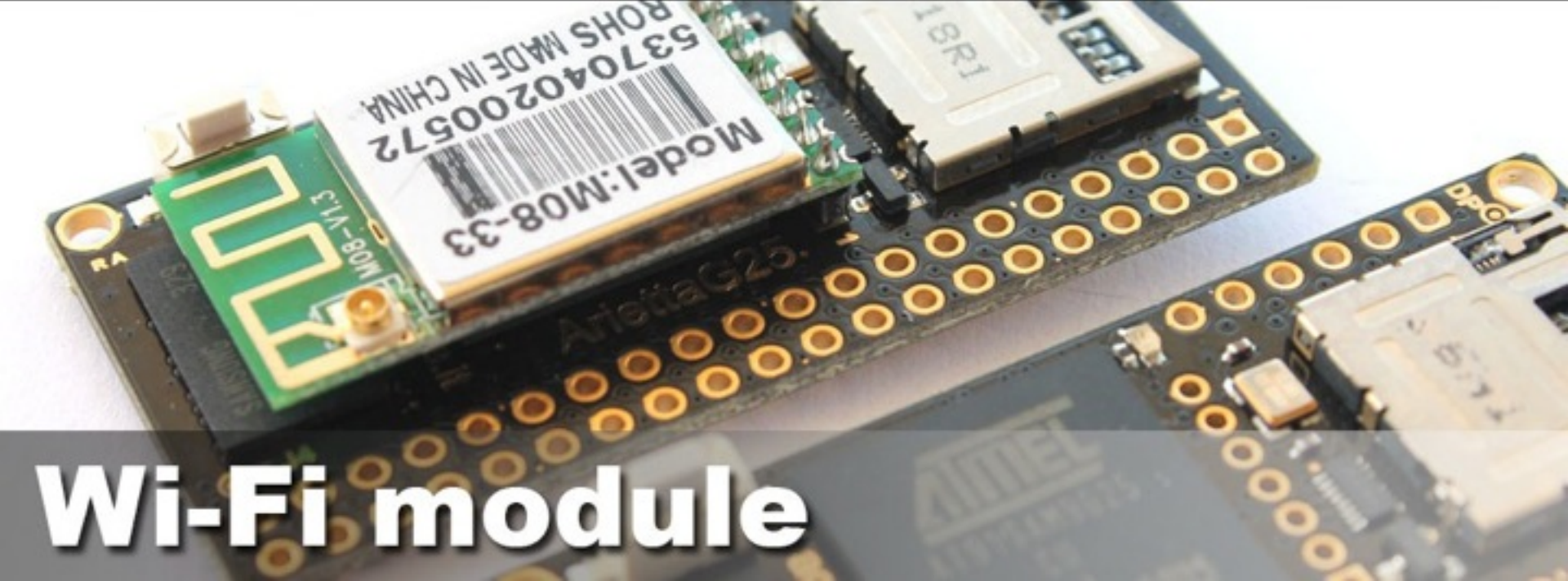




2.8" TFT with touch

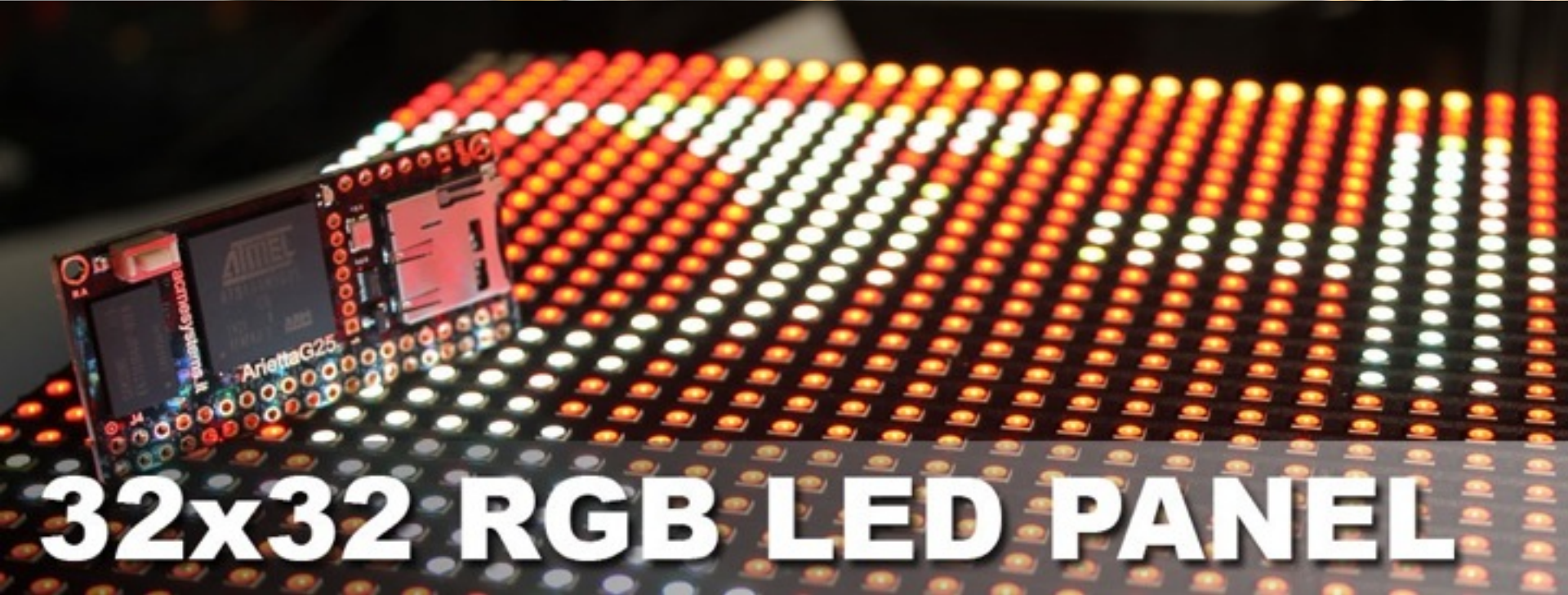


I2C display



Wi-Fi module

The image shows a black printed circuit board (PCB) with a green antenna on the left. A white label in the center contains a barcode and the text "Model: M08-33", "537040200572", and "ROHS MADE IN CHINA". To the right of the label is a silver component, possibly a heat sink or a connector. The PCB has many gold-plated through-holes along its edges.



32x32 RGB LED PANEL

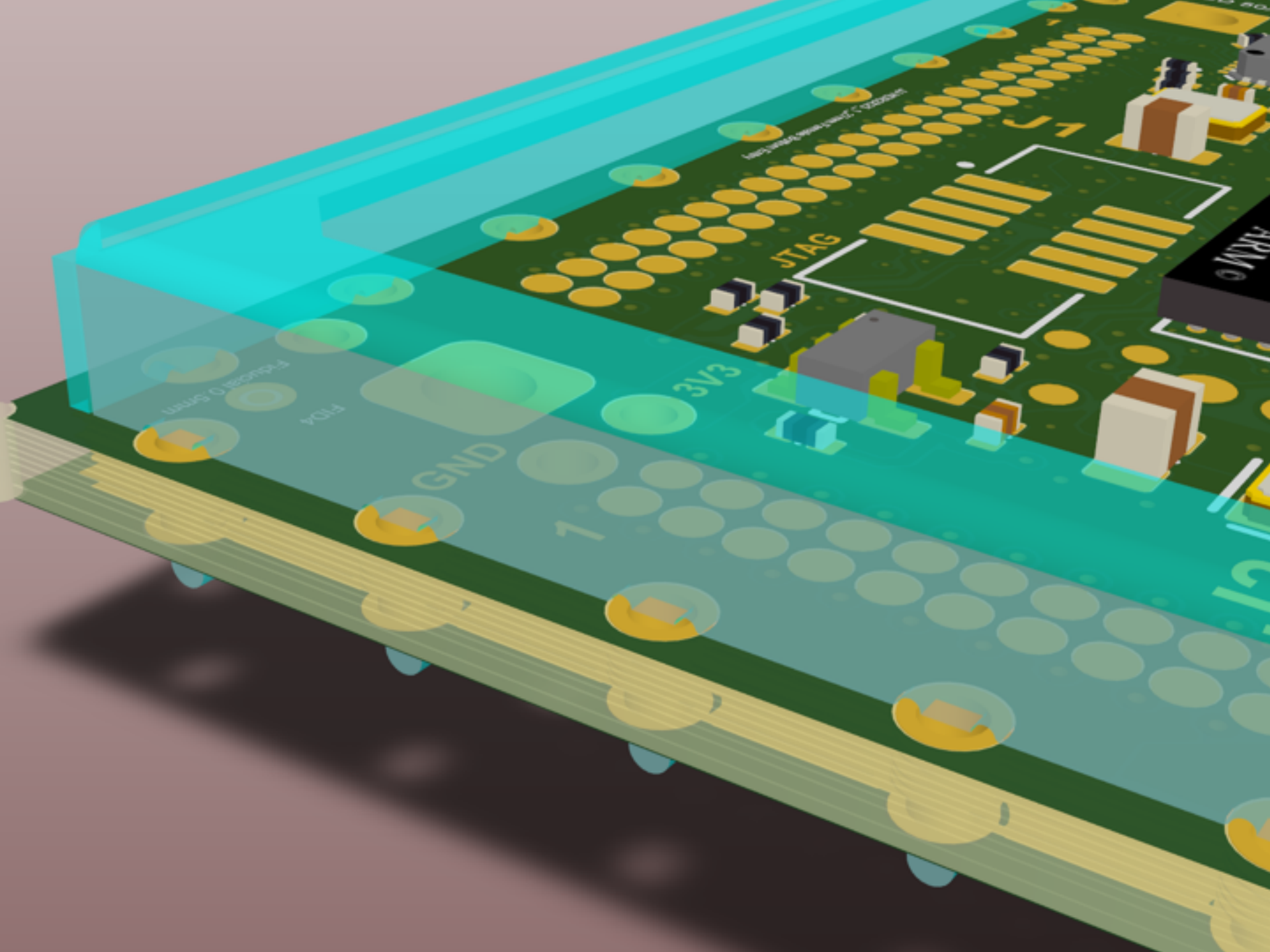
The image shows a large, rectangular panel made of many small, square RGB LEDs arranged in a grid. The LEDs are illuminated, showing a mix of red, green, and blue colors. In the bottom-left corner, a small circuit board is visible, featuring an Intel Atom processor and other components. The board has a red header and a small red component.

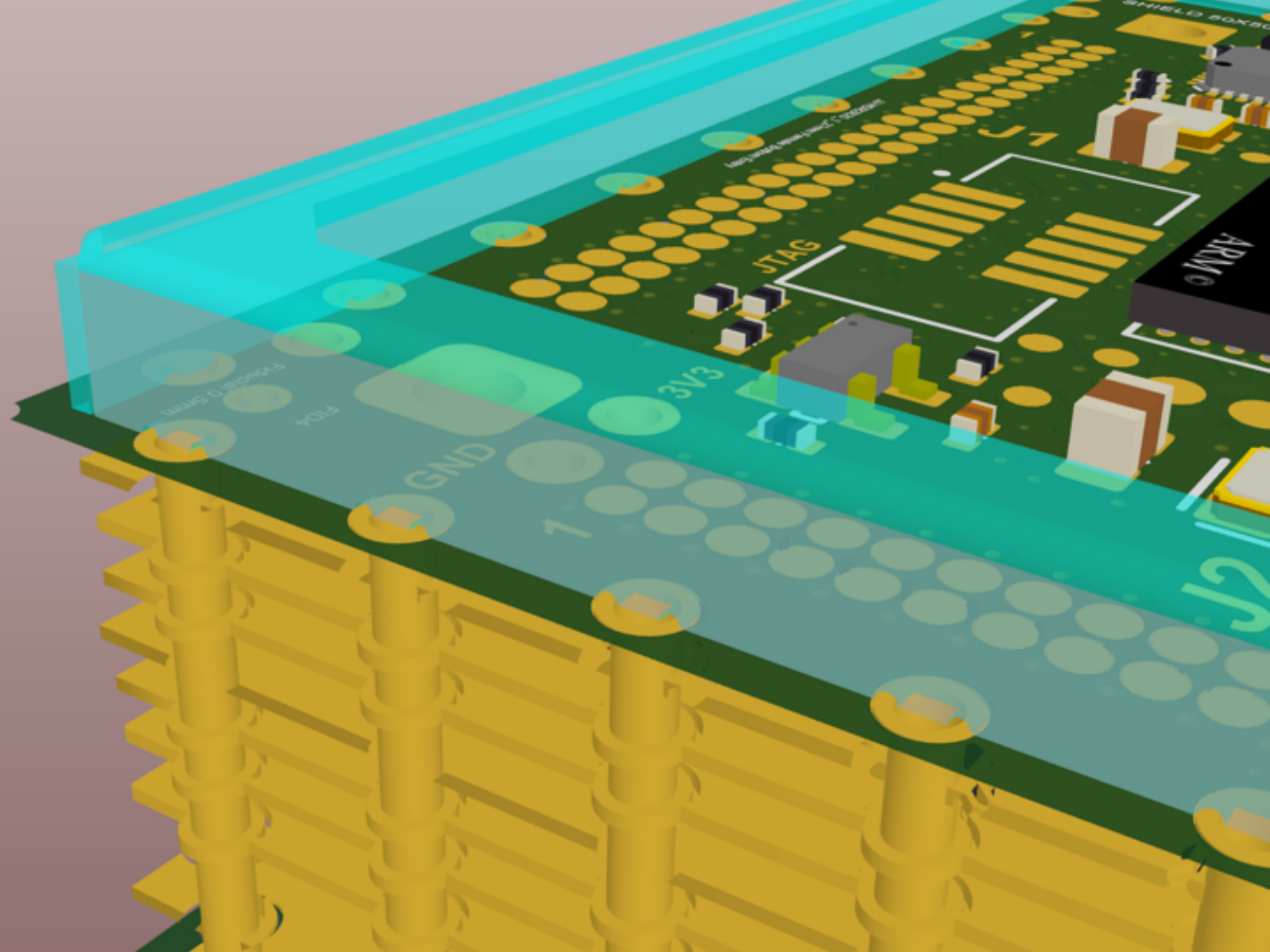


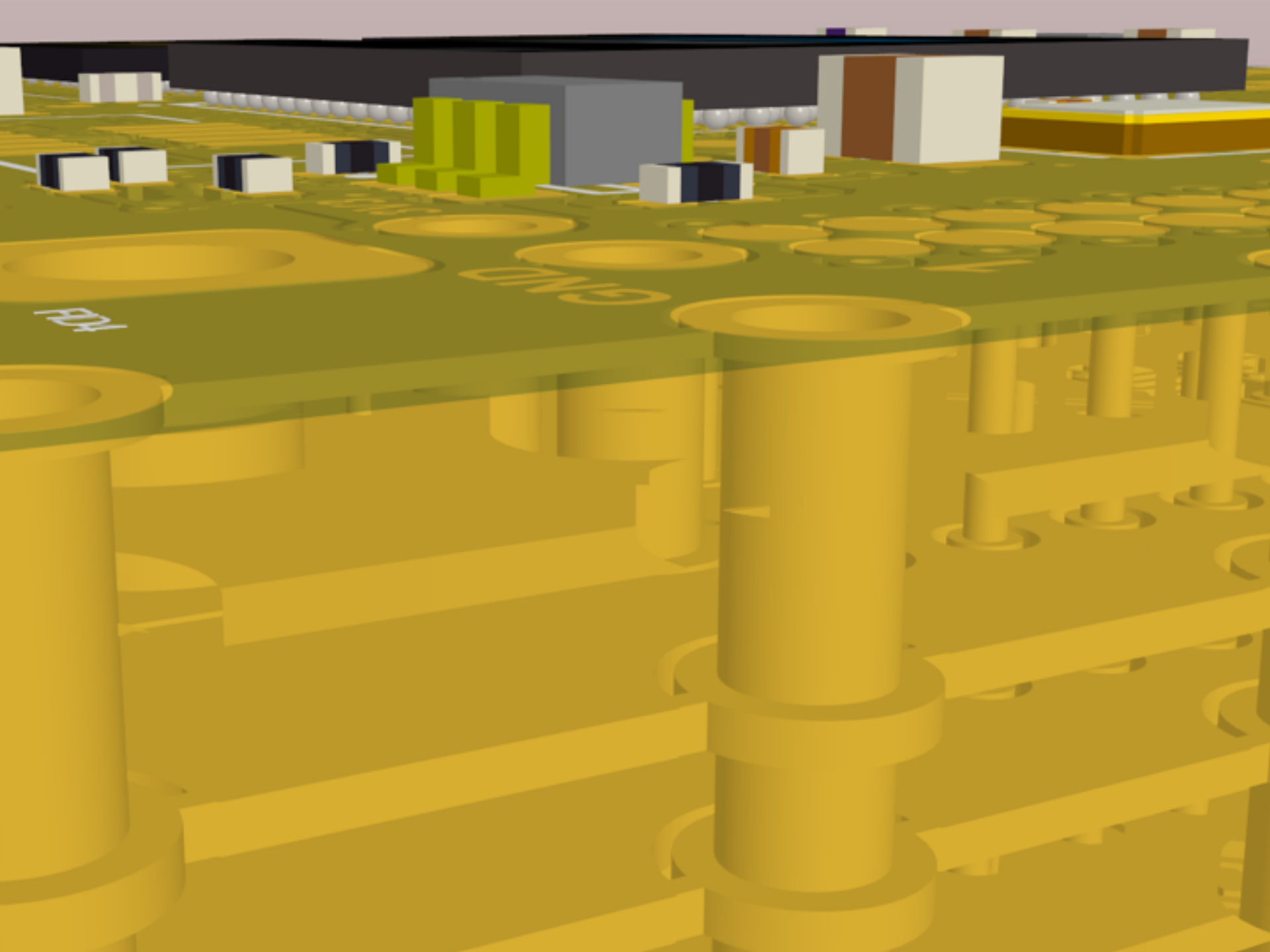
USB connectors

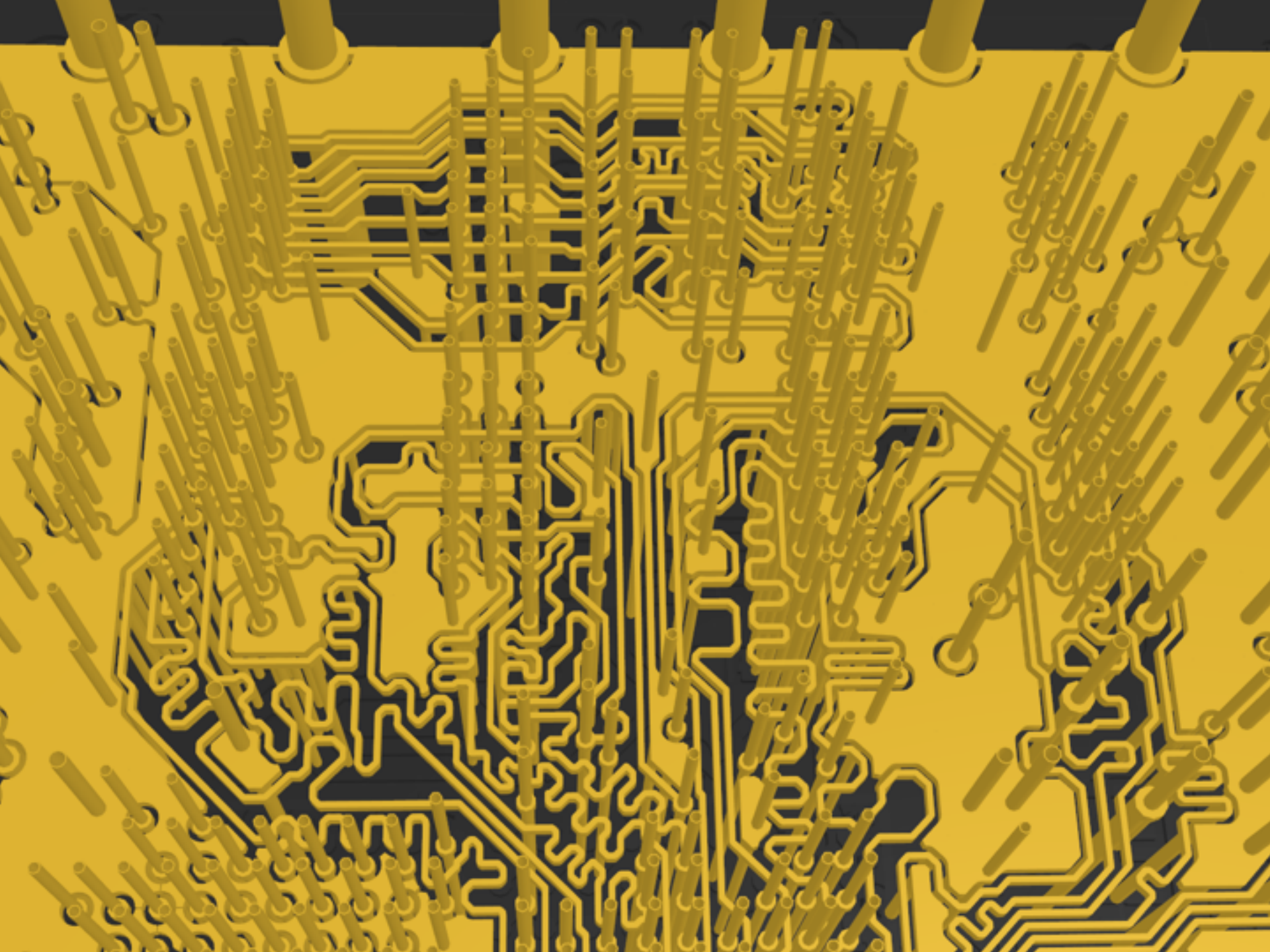


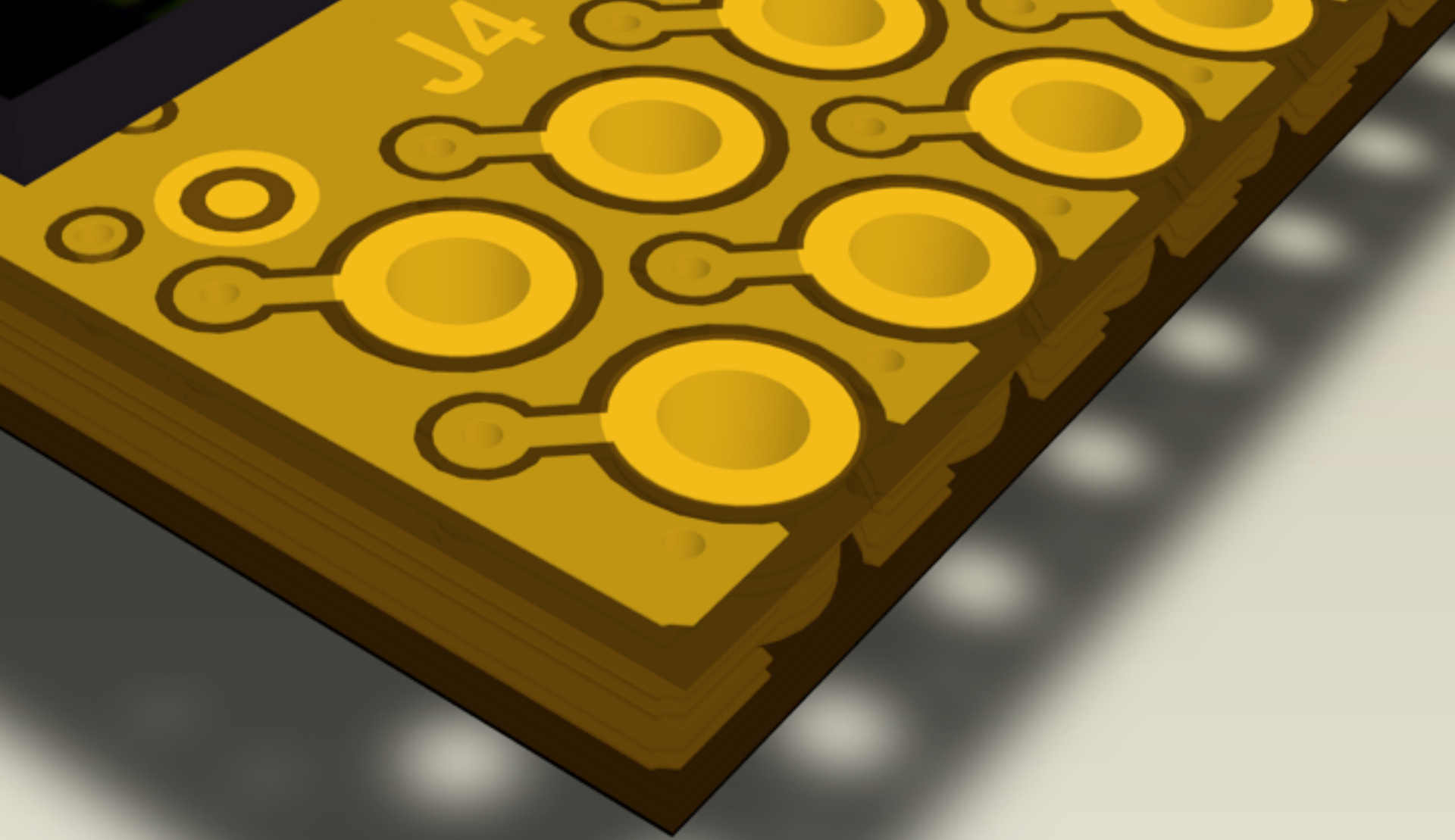
USB WebCam

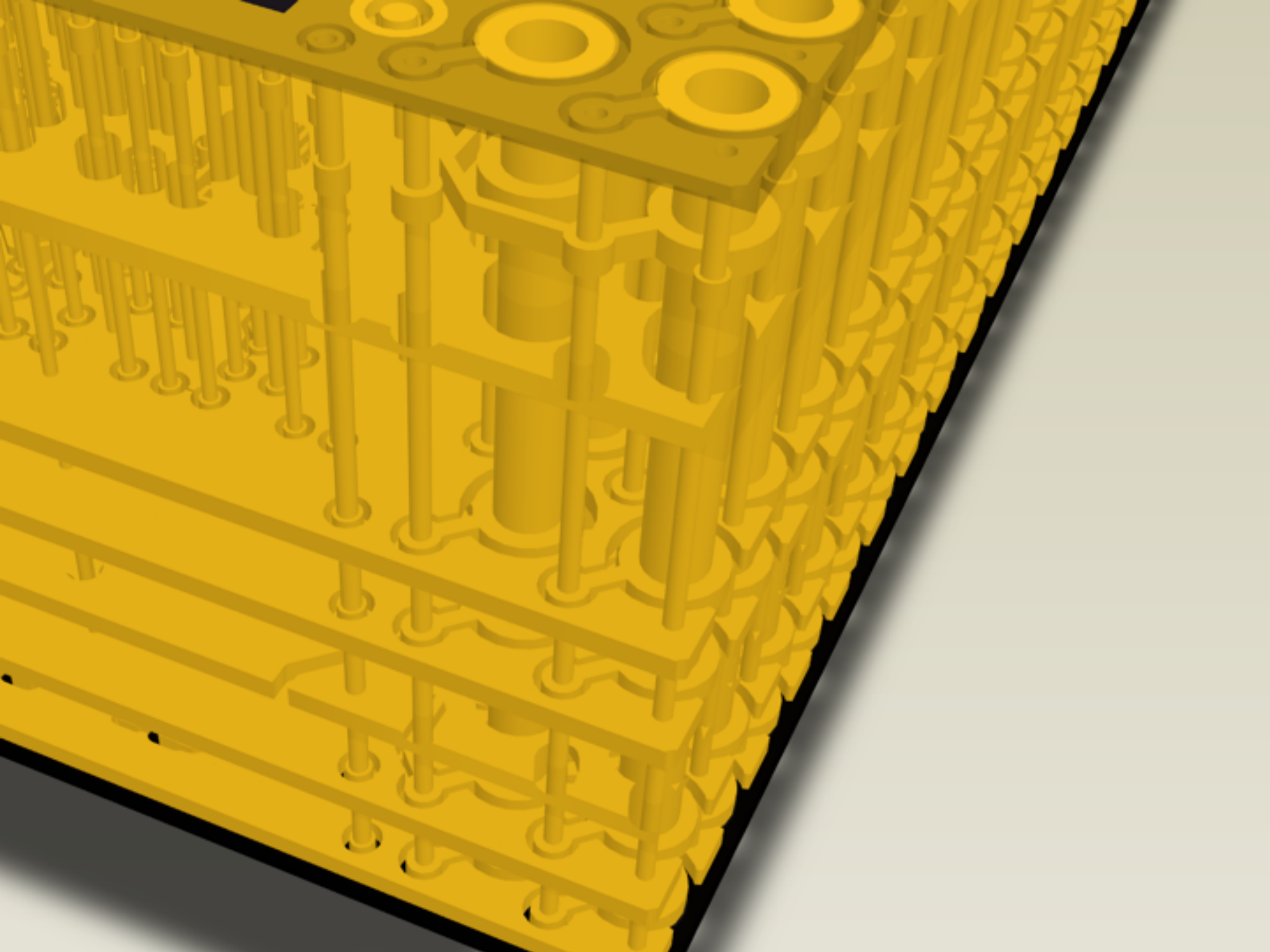


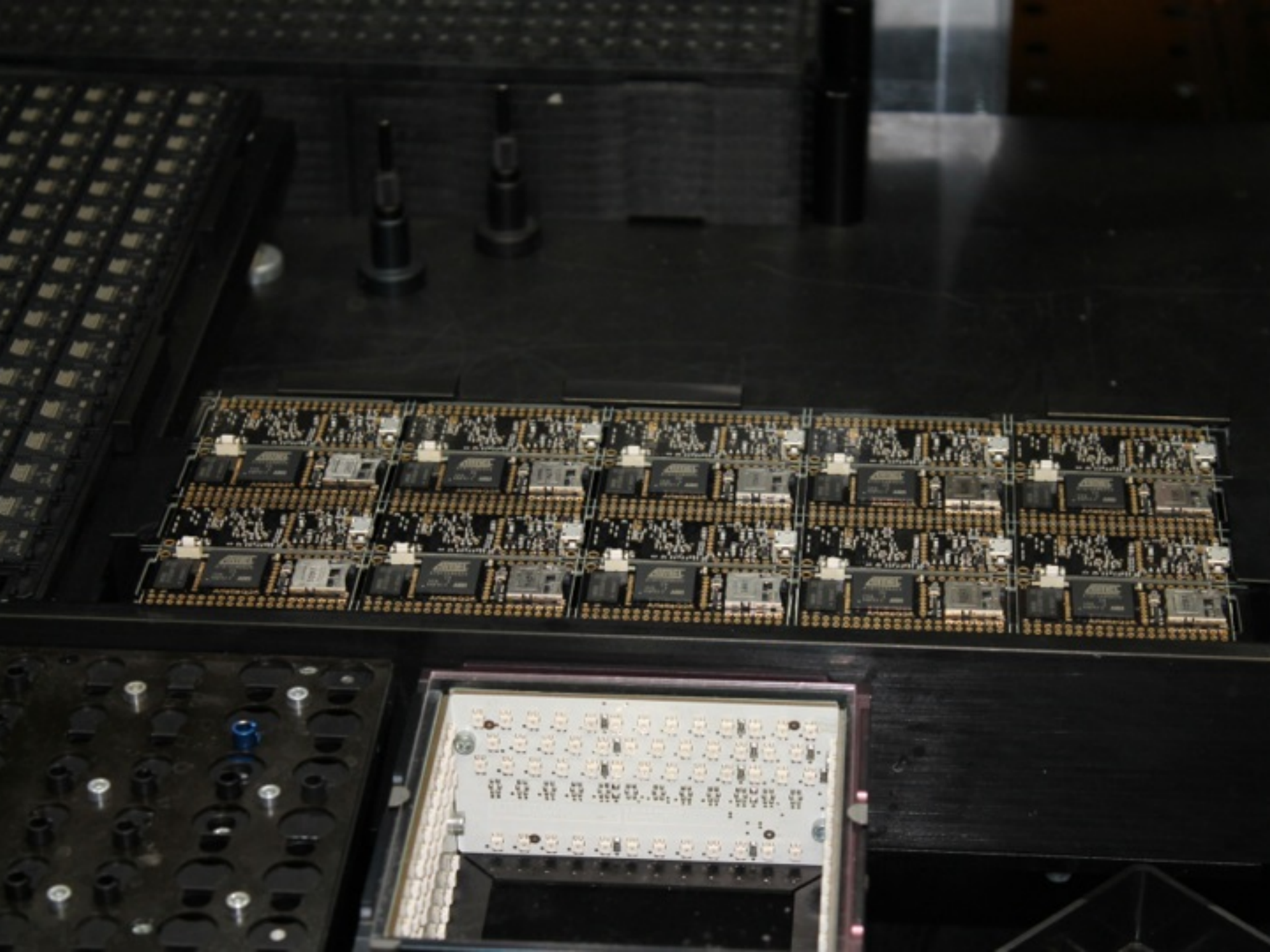










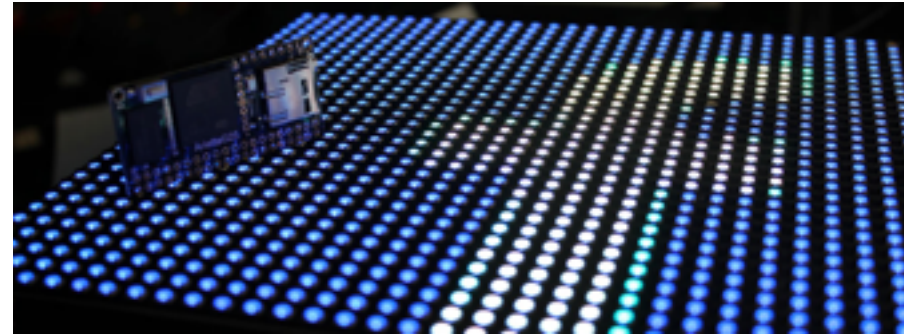


Un esempio di applicazione pratica

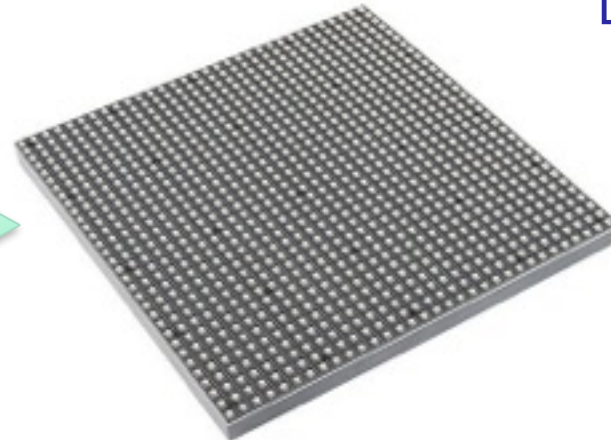
AP:

ledpanel1,2,3,4

192.168.2.1



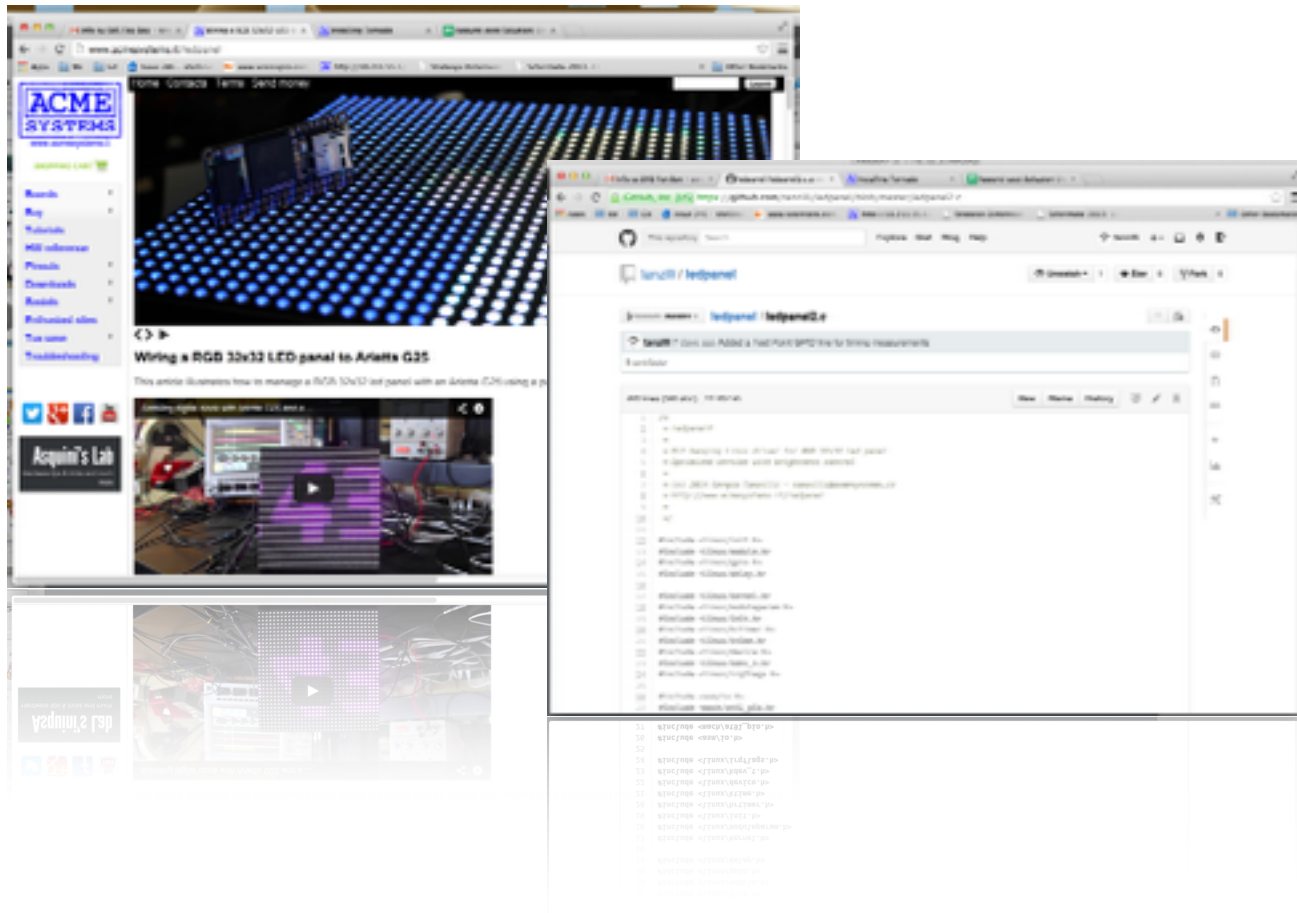
Arietta G25



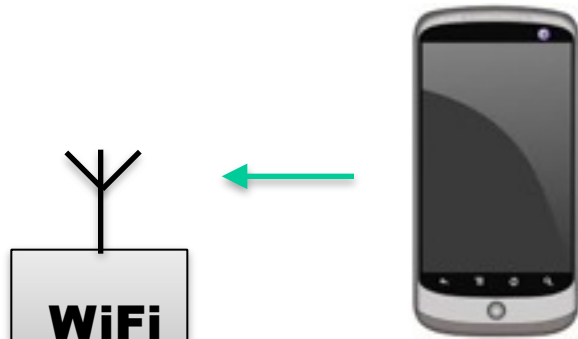
LED RGB
PANEL
3072 led

Tutorial e sorgenti on-line

www.acmesystems.it
www.acmesystems.eu
acme.systems



USER SPACE



WiFi

HTTPD

Tornado

PIL

RGB
ARRAY

python

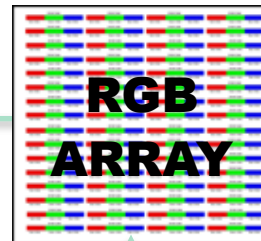
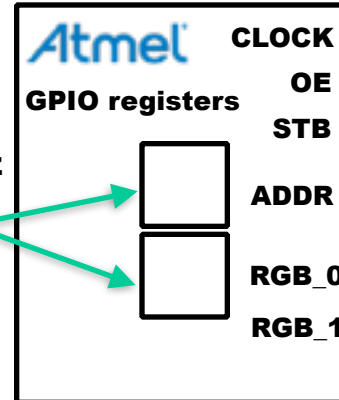
KERNEL SPACE

HR timer



250KHz

callback()



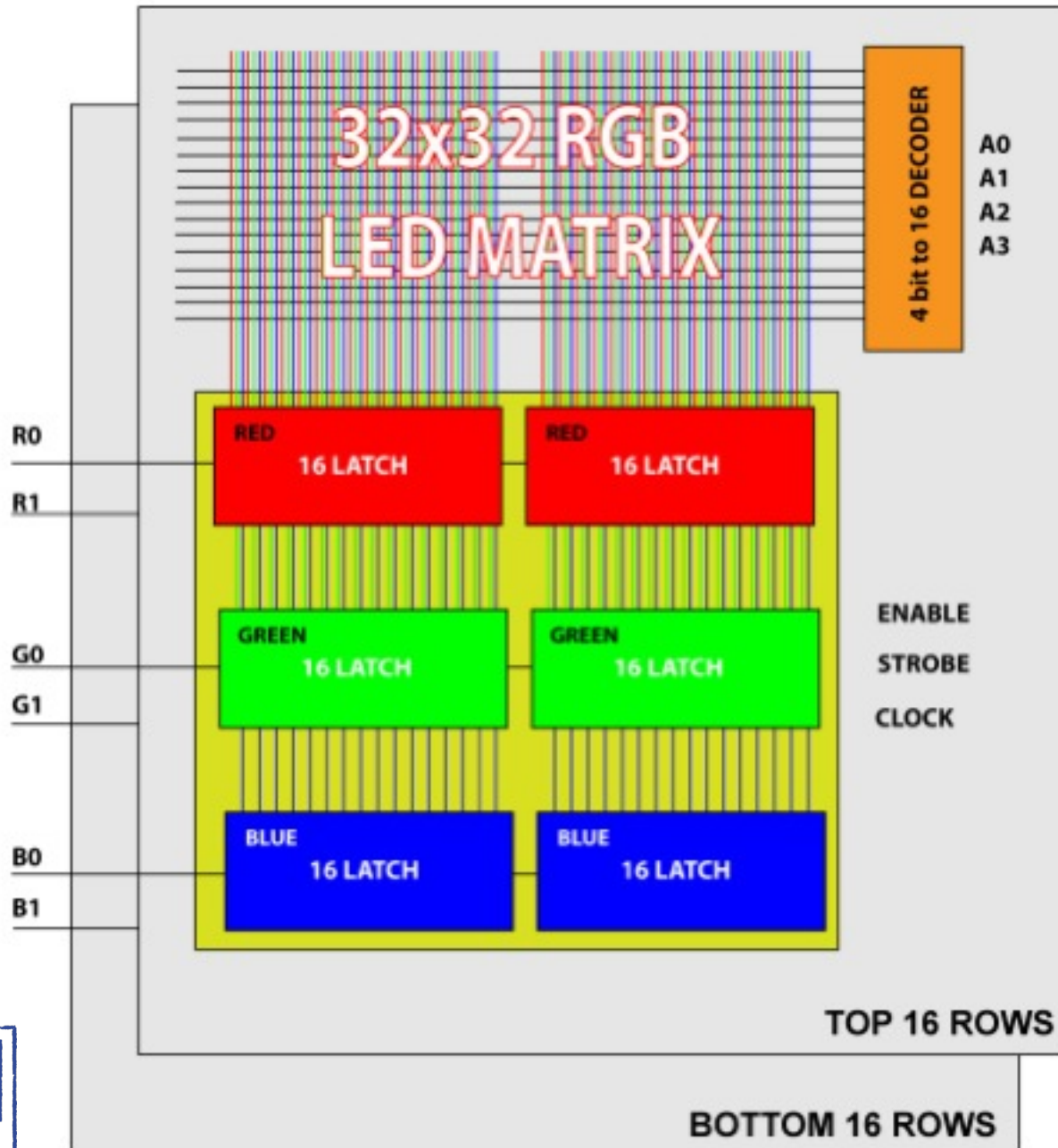
ledpanel.ko

RGB
32x32
LED
PANEL

3072
LED

ACME
SYSTEMS

`/sys/class/ledpanel/rgb_buffer`



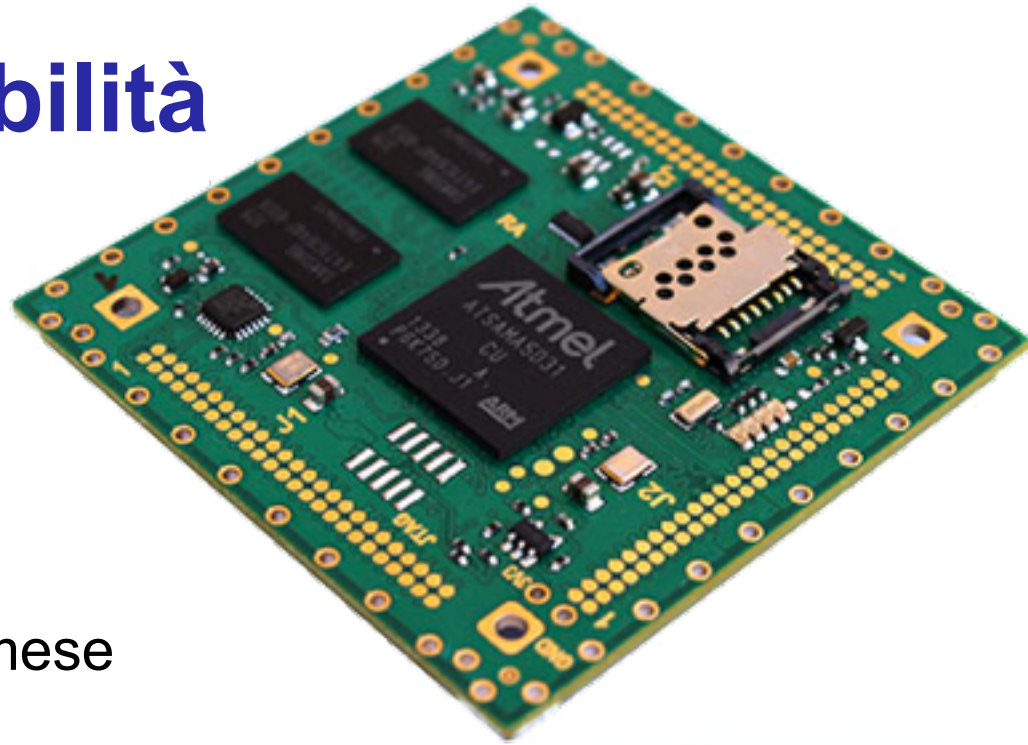
PREZZI E DISPONIBILITÀ



Prezzi e disponibilità

Acqua A5

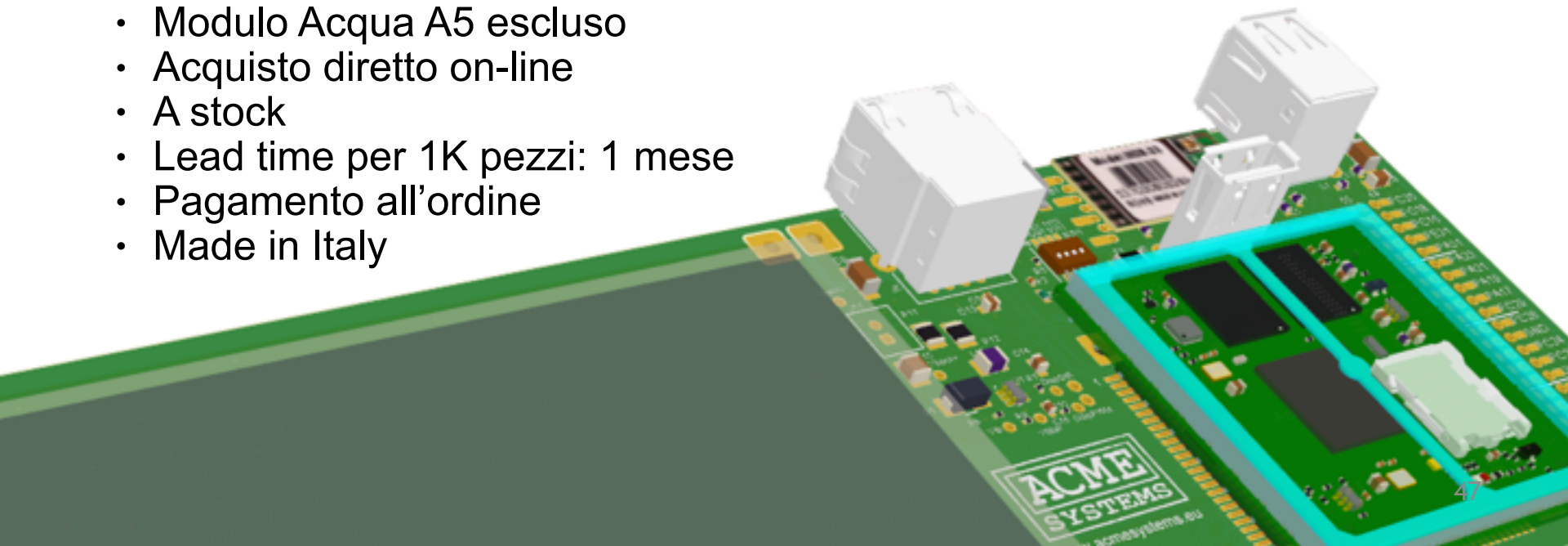
- da **39.20 EUR** / 1K pz
- Acquisto diretto on-line
- Disponibilità 10 anni
- Campioni a stock
- Lead time per 1K pezzi: 1 mese
- Pagamento all'ordine
- No brand on board



Prezzi e disponibilità

Schede di valutazione

- Berta A5 base **Euro 9.00**
 - Berta A5 extended **Euro 25.00**
 - Berta A5 LCD **Euro 35.00**
 - LCD da 4.3 pollici: **Euro 20.00** (16.40 x 1K)
 - LCD da 5 pollici: **Euro 25.00** (20.50 x 1K)
 - LCD da 7 pollici: **Euro 30.00** (24.60 x 1K)
-
- Modulo Acqua A5 escluso
 - Acquisto diretto on-line
 - A stock
 - Lead time per 1K pezzi: 1 mese
 - Pagamento all'ordine
 - Made in Italy



Prezzi e disponibilità

Aria G25

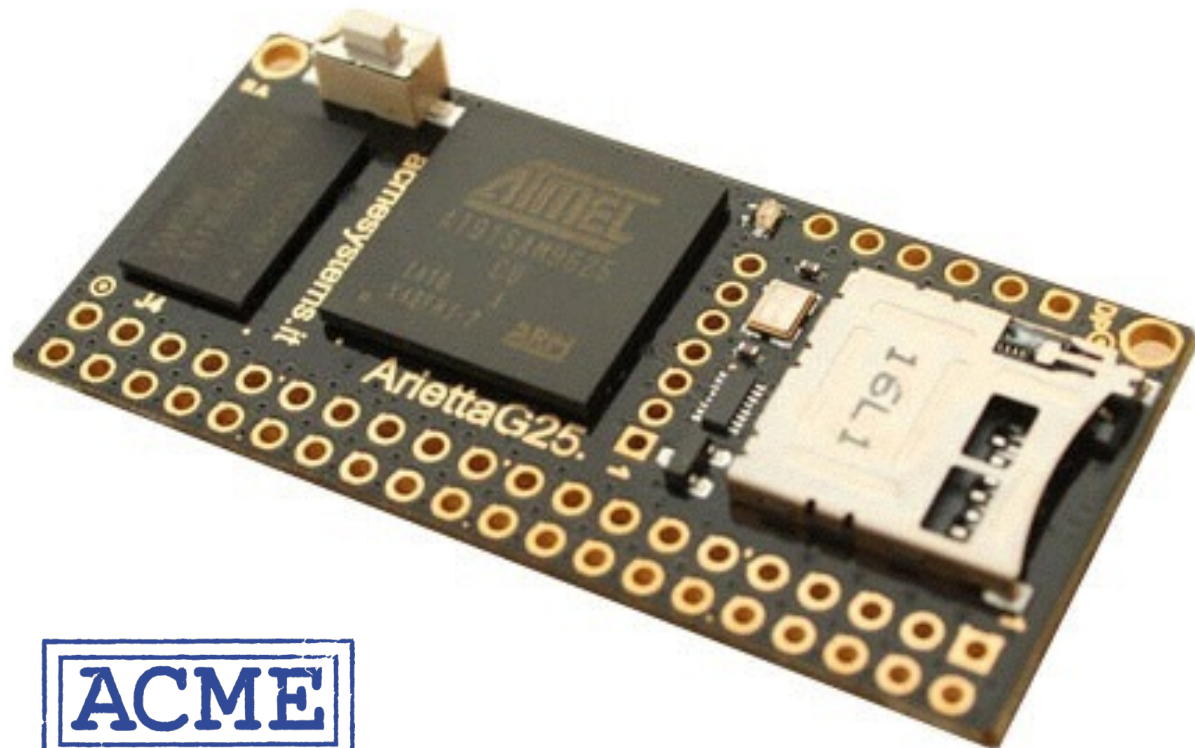
- da **21.60** EUR / 1K pz
- Acquisto diretto on-line
- Disponibilità 10 anni
- Campioni a stock
- Lead time per 1K pezzi: 1 mese
- Pagamento all'ordine
- No brand on board



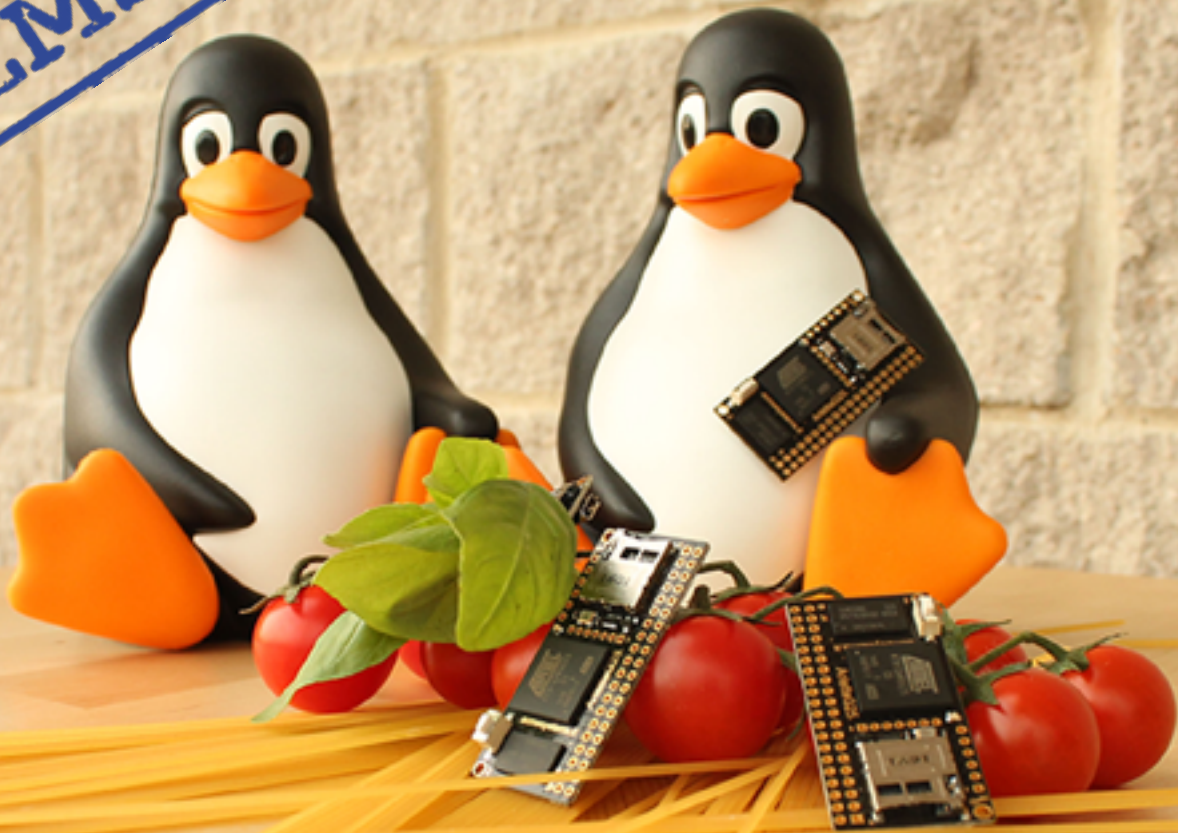
Prezzi e disponibilità

Arietta G25

- Prezzo promozionale a **20.00 EUR / 1 pz**
- Disponibile a stock
- Acquisto diretto on-line



ACME
SYSTEMS



GRAZIE PER L'ATTENZIONE