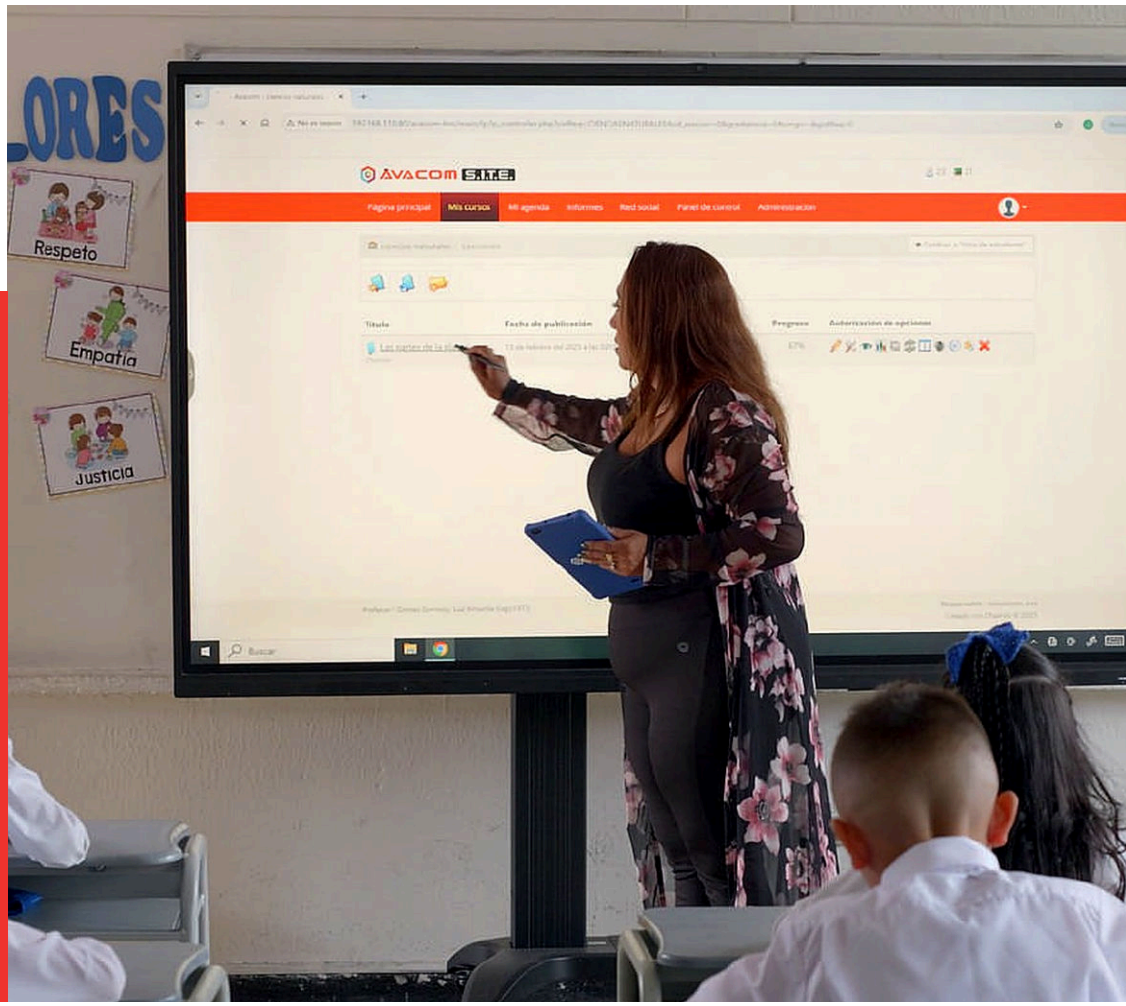
DATASHEET
2026 EDITION

AVACOM
Todo es posible!

AVACOM

AULA BOARD 86 PRO +

All-in-one 4K interactive display, embedded classroom server and 4G SIM connectivity.



MODEL
Aula Board 86 Pro +

DISPLAY
86" · 4K UHD

CONNECTIVITY
4G SIM · Wi-Fi 6

SYSTEM
Android 14

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03 **INTRODUCTION**
A standalone classroom learning hub

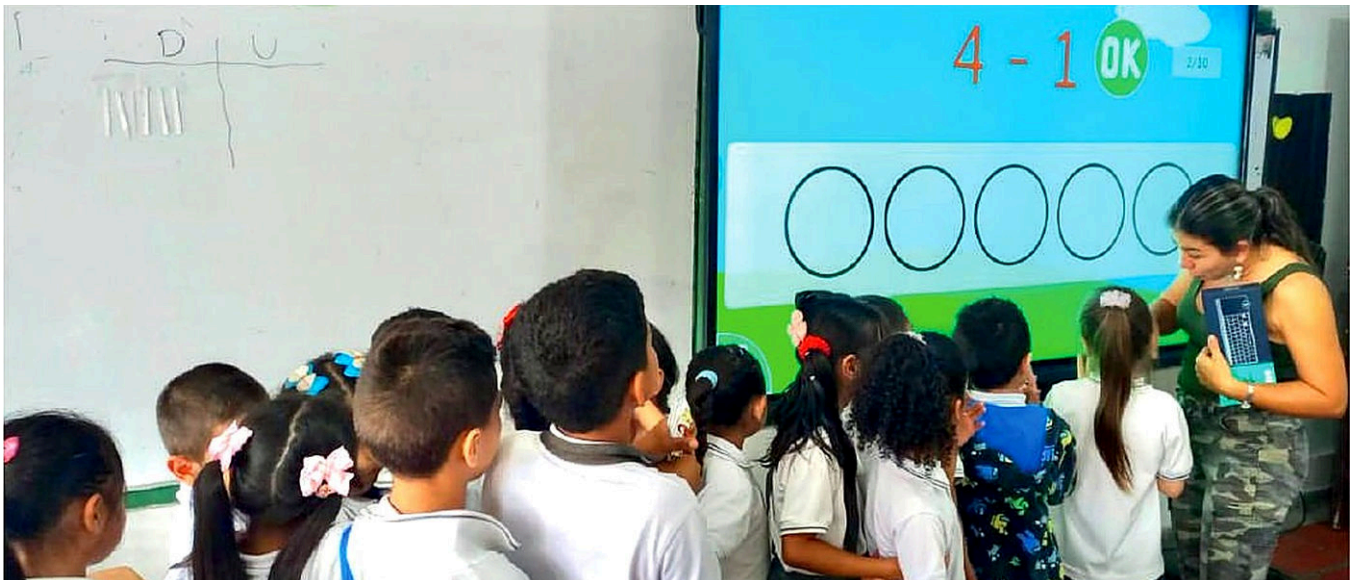
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86"
4K UHD

Designed for the classroom: natural writing, up to 40-point simultaneous collaboration and full offline operation.

INTRODUCTION

The **AVACOM Aula Board 86 Pro +** is an all-in-one device designed to turn the classroom into an autonomous, interactive and collaborative learning hub.

It features an 86" touch panel with native 4K UHD resolution, 5 mm anti-glare, anti-fingerprint tempered glass and smart gesture recognition: finger writes, palm erases.

At its core is the **AVACOM Aula Server 32 Pro +**, an embedded classroom server that hosts the local LMS and runs without internet (offline-first), with secure sync when connected.

Its key differentiator is the **built-in SIM card slot (4G)**: native mobile connectivity, manageable per classroom, ideal for rural sites or intermittent connectivity.

A 4K camera, eight microphones and 2.1 sound complete a solution ready for in-person, hybrid and video-conference classes.

AT A GLANCE

86″
4K UHD
3840 × 2160 pixels, 400 cd/m² and 178° viewing angle.

40
TOUCH POINTS
Infrared touch, ±2 mm accuracy, 5 mm tempered glass.

4G
BUILT-IN SIM
Native mobile data, plus Wi-Fi 6 and Gigabit Ethernet.

i7
EMBEDDED SERVER
Intel Core i7, 32 GB RAM, 1 TB SSD and Windows 11 Pro.

8
MICROPHONES
Array with smart noise filtering and 4K 120° camera.

2.1
AUDIO SYSTEM
2 × 20 W plus 20 W subwoofer for the whole room.



SPECIFICATIONS

DISPLAY

Size	86" (active area 1895 × 1066 mm)
Resolution	4K UHD 3840 × 2160, 16:9
Brightness	400 cd/m²
Contrast	1200:1
Frequency	60 Hz
Response time	≤ 8 ms
Viewing angle	178° (H) / 178° (V)
Color	72% NTSC, 1.07 billion colors, HDR
Lifespan	30,000 hours

TOUCH PANEL

Technology	Infrared
Touch points	40 (Android & Windows)
Accuracy	± 2 mm
Glass	5 mm tempered, anti-glare, anti-smudge
Gestures	Finger to write, palm to erase; detects fine or thick pen
Input	Finger or opaque objects

SYSTEM & COMPUTE

Operating system	Android 14
Processor	Octa-core
Memory	8 GB RAM · 128 GB SSD
Classroom server	AVACOM Aula Server 32 Pro +, embedded
Server: compute	Intel Core i7 · 32 GB RAM · 1 TB SSD
Server: OS	Windows 11 Pro
Compatibility	Android, Windows, iOS & Chrome

AUDIO & VIDEO

Camera	Built-in 4K, 120°, top bezel center
AI features	Auto framing and voice tracking
Microphones	8-mic array with smart noise filtering
Audio	2.1 system: 2 × 20 W plus 20 W subwoofer
Videoconference	WebRTC, H.264 / H.265 codecs

DUAL SYSTEM

Android 14 and Windows 11 Pro on the same device, to use apps from both systems in class.



CONNECTIVITY & PORTS

- SIM slot with built-in 4G module
- Gigabit Ethernet (10/100/1000 Mbps)
- Wi-Fi 6 (802.11 ax) and dual-band 2.4 / 5 GHz hotspot
- Bluetooth 5.0 & NFC
- Wireless screen sharing from multiple devices at once, via NFC and QR code
- VLAN & QoS support for classroom network

FRONT PANEL

USB 3.0 (type A)	3
USB-C (full)	1
Touch USB (type B)	1
HDMI 2.0 IN	1 (up to 3840 × 2160 @ 30 Hz)

INDICATORS & BUTTONS

Indicator	Front bezel, red / blue
Front buttons	7: screen record, format, volume − / +, settings, eye protection and power

REAR PANEL

HDMI IN	2
HDMI OUT	1
DisplayPort IN	1
USB-C IN / OUT	1 / 1
USB 2.0 / USB 3.0	1 / 2
Touch USB (type B)	2
LAN IN / LAN OUT	1 / 1
RS232	1
Audio	Coaxial SPDIF, headphone and mic
Slots	4G SIM and TF card

FRONT VIEW



PHYSICAL DATA



DIMENSIONS

1953.2 × 1151.6 × 92.5 mm

WITH WALL MOUNT

128.5 mm deep

NET WEIGHT

68 kg ± 3 kg

PACKAGING & POWER

Front bezel	23.2 mm
Package	2083.2 × 1281 × 230 mm
Gross weight	83 kg ± 3 kg
Power supply	AC 110 – 264 V
Max power	290 – 340 W (excl. server)
Standby power	< 0.5 W

OPERATING CONDITIONS

Operating	0 – 40 °C · 10 – 80 % RH
Storage	−20 – 60 °C · 10 – 90 % RH
Altitude	Up to 5000 m

MOUNTING

Includes wall mount. Compatible with the **AVACOM Lift 4 Pro +** motorized stand (sold separately).

INCLUDED ACCESSORIES

- Remote control
- AC power cable (2 m)
- 2 pens
- Wall mount
- HDMI cable (2 m)
- USB type B cable

ECOSYSTEM & SOFTWARE

PLATFORM

AVACOM Edu Soft LMS V.2.0, on the classroom server: courses, assessments, item banks, analytics and dashboards, with or without internet.

MANAGEMENT

Lightweight MDM console: inventory, software deployment, OTA updates and remote diagnostics.

INTEROPERABILITY

SCORM, xAPI and IMS LTI standards, plus RESTful APIs for student information systems.

SECURITY

Encrypted communications (TLS), encryption at rest (AES-256), role-based access control, logging and auditing.

OFFLINE-FIRST

Works offline and syncs securely when the network returns.

SERVICE

01 **HELP DESK**
Usage questions and first issues, with step-by-step remote help.

02 **TECHNICAL SPECIALISTS**
Advanced diagnostics and setup, with on-site visits per contracted plan.

03 **ENGINEERING & FACTORY**
Complex cases and device replacement.

Support, maintenance and training are purchased separately as a service.



+20
YEARS

+120K
STUDENTS

+5,000
CLASSROOMS

Hardware with our own patents, designed in Colombia for the world.


AVACOM
Todo es posible!