

ADV3683

ADV3683 Smart Conference & Teaching All-in-One Display

ADV3683

5×HDMI | Dual OPS |
Dual LAN | 2.1 Audio |
RS232 | WiFi

Front Board:
3×HDMI |
Type-C PD Max100W

No Android.
No Memory.
No Storage.
No Worries.



Industry Pain Points

Unstable Component Pricing

Continuous price hikes for DDR/EMMC → Uncontrollable overall machine cost

Insufficient Interface Quantity

Traditional products only have 2-3 HDMI ports, making multi-device connection difficult

Poor Audio Experience

Thin 2.0-channel sound quality, inaudible in large meeting rooms

Complex Design

Excessive external modules, messy cables, and low reliability

ADV3683 – One-Stop Solution

One product to solve all pain points

01

5 HDMI Ports + Full-Function Front Panel

02

Dual OPS Interfaces

03

Dual RJ45 Ethernet Ports

04

2.1-Channel Audio

05

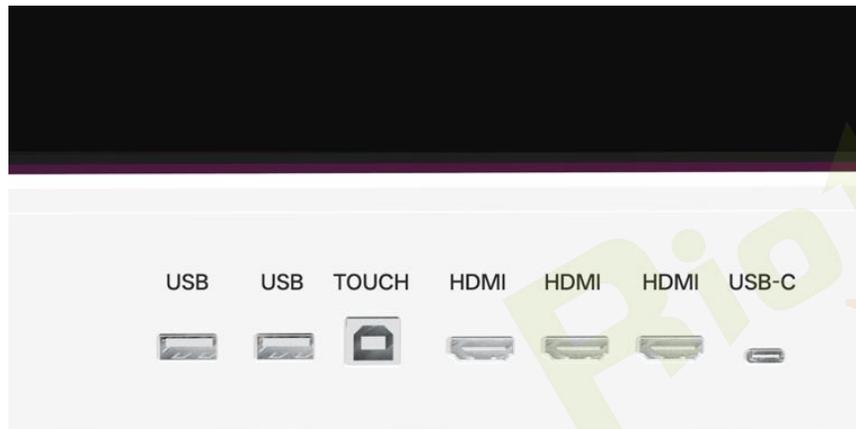
Built-in WiFi

06

Light Sensor + Serial Port Central Control

5 HDMI Ports + Multi-Function Front Panel

5 HDMI ports for seamless multi-display connectivity. Full-function front-panel interfaces enable plug-and-play efficiency, streamlining office meetings in one step!



- **5 HDMI Inputs (3 Front + 2 Rear)**

3 front-facing HDMI ports for convenient plug-and-play access. Type-C supports 15W PD power delivery (100W optional)

- **Multi-Function Front Panel**

3×HDMI + Type-C + USB + Touch

Dual OPS Interfaces

Dual OPS interfaces enable seamless dual-system switching, making one device serve two purposes with greater efficiency!

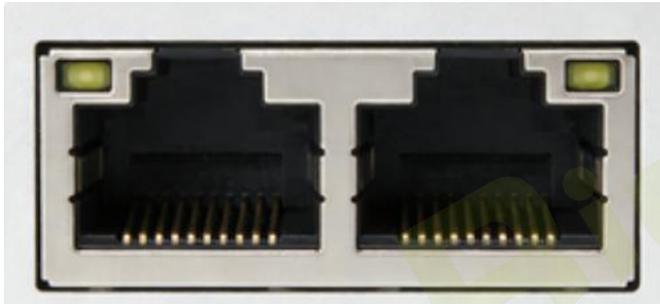


Dual-System Parallel Operation

Modular dual OPS design allows dual systems to run in parallel, enabling stable expansion and meeting the intelligent office needs of multiple scenarios.

Dual Network Ports

Unprecedented Connectivity



Dual RJ45 Ethernet Ports

- Primary/backup failover ensures uninterrupted meetings;

2.1-Channel Immersive Audio

2.1-Channel Audio – Hear the Difference



- **Independent Bass Channel**
Supports external subwoofers, delivering rich and powerful bass.
- **Crystal-Clear Audio for Remote Meetings**
Precisely reproduces human voice.
- **Ideal for Large Spaces**
Full coverage for large meeting rooms and auditoriums.

Built-in WiFi

Built-in WiFi for seamless wireless connectivity, free from the constraints of network cables!



- **Built-in WiFi Module**

No external USB network adapter required.

- **Auto WiFi Reconnection During Dual-System Switching**

No need to re-enter the password repeatedly.

Ambient Light Sensor + Serial Port Central Control

Adaptive brightness via ambient light sensor, centralized control via RS232 serial port, enabling efficient O&M and smart convenience.



- **Auto Brightness Adjustment via Ambient Light Sensor**

Eye-friendly and comfortable light sensing.

- **RS232 for Unified Central Control System Management**

Easy management via serial port central control, making commercial scenarios smarter.

Choosing the ADV3683 All-in-One Device means your brand will gain:

1. Controllable Costs

No longer subject to shortages or price hikes of single components, gaining full control over procurement.

2. Product Differentiation

Stand out from homogeneous competitors with distinct features: "rich interfaces, superior audio, and simplified design".

3. Global Compatibility

For global brand owners, the ADV3683 delivers stable and consistent performance when paired with any size of V-by-One 4K display.

4. Faster Time-to-Market

Simplified design and mature software support significantly reduce your overall device R&D cycle, helping you seize market opportunities.

Let us join hands to build the next-generation flagship conference and education solutions centered on the ADV3683.



Technical Specifications At a Glance

Display Interface	V-by-One 4K (supports all-size displays), 4K@60Hz
HDMI Input	Rear:Front: 3×HDMI + 2×HDMI
Touch	40-point Multi-Touch (Windows only)
Operating System	Extensible via OPS (Windows/Android)
USB 3.0	2 ports
OPS Interface	2 standard 80-pin Windows OPS Slots
Audio	2.1-channel (left/right channels + bass channel)
Serial Port	RS-232 (central control protocol)
Ambient Light Sensor	Supports ambient light sensing
Network	Dual RJ45 (primary/backup failover/isolation) + Built-in WiFi
Other Interfaces	TF card, reserved ports for camera/microphone

Comparison with Common Market Products

Compared with traditional solutions that only offer basic interfaces, the ADV3683 provides a "luxurious" interface configuration to meet all expansion needs of high-end meeting rooms for the next 5 years.

ADV3683

Video Input

3×HDMI (Front) + 2×HDMI (Rear)

Core Expansion

Dual OPS Interfaces (supports dual-system hot-plugging)

Network Connection

Dual RJ45 Ports (supports port redundancy or internal/external network isolation)

Audio System

2.1-Channel (independent subwoofer channel)

Front Interaction

Full-function front panel (supports Type-C PD 15W / upgradable to 100W)

Wireless Integration

Built-in WiFi (auto network switching between dual systems, no repeated authentication required)

VS

Traditional Solution

Video Input

Typically only 2-3 HDMI ports, struggling to handle complex scenarios with multiple devices connected simultaneously

Core Expansion

Single OPS slot, only supports single Windows system expansion

Network Connection

Single network port design, unable to achieve secure dual-network isolation on one device

Audio System

2.0-Channel

Front Interaction

Few front-facing interfaces; Type-C only supports screen mirroring with weak power supply capability

Wireless Integration

Relies on external WiFi modules or single-system availability; requires reconnection when switching systems

Application Scenarios



Large Meeting Rooms

Multi-device access with 5 HDMI ports (no congestion)



Schools / Training Centers

Dual OPS for teaching & entertainment



Government Agencies

System-free design & physical isolation

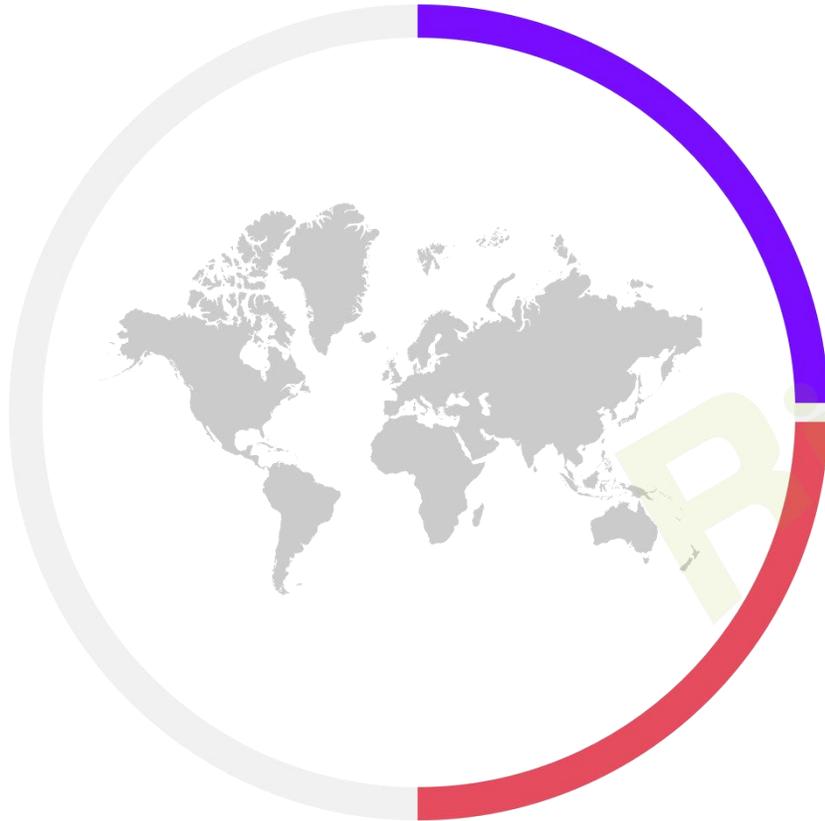


Multinational Corporations

Auto network switching for business travelers

Empower Your Brand

Riotouch



**ADV3683 — Simplify Complexity,
Secure a Winning Future**

**Looking forward to co-creating
with you!**

Thank You



Official Website



YouTube



Facebook



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