

J I 2 0 M

DIGITAL CONVERGENCE WIRED CONFERENCE HOST

Digital network conference host with wired/wireless convergence, AOIP/TCP-IP networking, ANC/AFC processing and touchscreen control.

WIRED/WIRELESS

AOIP / TCP-IP

4.3 TOUCH

ANC / AFC

3 BACKUPS



D I G I T A L C O N V E R G E N C E H O S T

A O I P · T C P / I P · A N C / A F C · T O U C H

01 OVERVIEW

The Jistron JI20M is a Digital Convergence Wired Conference Host developed on a digital network architecture for wired and wireless converged conference applications. It integrates AOIP network audio and TCP/IP networking, supports flexible addition of wireless microphone units, and includes machine-learning ANC noise reduction, AFC feedback suppression, camera tracking, voting functions, ring backup and multiple seamless audio backups.

02 KEY FEATURES

■ Wired / wireless convergence

Wireless microphone units can be added at any time for flexible conference deployment.

■ AOIP + TCP/IP networking

Network audio and management are integrated through AOIP and TCP/IP network architecture.

■ ANC noise reduction

Embedded machine-learning logic identifies noise and activates automatic noise reduction.

■ Three seamless audio backups

Microphone digital-analog backup, ring backup and host digital-analog backup are supported.

■ AFC feedback suppression

Environmental learning identifies feedback and activates AFC before system howling develops.

■ 4.3-inch touchscreen

Front-panel touchscreen supports host management, settings and status display.

■ Camera tracking support

Works with a camera tracking host, panoramic presets and central control integration.

■ Voting & sign-in functions

Supports sign-in, voting and result projection to a large screen.

03 CONFERENCE & CONTROL FUNCTIONS

5 SPEECH MODES	1 / 2 / 4 / 6	HOT PLUG	VOTING	CAM TRACK
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04 CONTROLS & SYSTEM OPERATION

1 TCP/IP NETWORK CONTROL

Automatically obtains an IP address or supports manual IP setup for plug-and-connect network management.

3 FIVE SPEECH MODES

Normal, FIFO, Free, Application and Voice Wake-up modes are available from the host.

5 HOT-PLUG SUPPORT

Microphone lines can be hot-plugged during a meeting without cutting system power.

7 EXTERNAL WALL CONTROLLER

Supports touch-screen management of conference mode, microphone status, demand service and microphone management.

2 4.3-INCH TOUCHSCREEN

Controls speech modes, volume, treble/bass, ANC/AFC, IP, language, status, ID and system information.

4 SPEECH LIMIT CONTROL

Number of active speech units can be set to 1, 2, 4 or 6; chairman and VIP units are not restricted.

6 CAMERA TRACKING

Supports automatic tracking with a tracking host, panoramic presets and central control.

8 PC SOFTWARE MANAGEMENT

Supports pre-meeting preparation, meeting management, post-meeting organization, voting and microphone management.

05 RELIABILITY & SYSTEM EXPANSION

■ Ring hand-in-hand backup

Failure or replacement of one microphone does not interrupt the normal operation of other microphones.

■ Three audio backup paths

Microphone digital-analog backup, hand-in-hand ring backup and host digital-analog backup are specified.

■ AOIP multi-room expansion

The AOIP network module supports real-time audio interconnection for large conferences or multiple rooms.

■ Unified wired / wireless system

The architecture supports converged wired and wireless conference applications and distributed management.

06 TECHNICAL SPECIFICATIONS

SYSTEM & CONTROL	
System type	Digital convergence wired conference host
Network architecture	Digital network architecture
Communication interface	TCP/IP
Network audio	AOIP network audio module
Front panel control	4.3-inch touchscreen
Speech modes	Normal · FIFO · Free · Application · Voice Wake-up
Speech unit limit	1 · 2 · 4 · 6 active units; chairman and VIP units unrestricted
Camera tracking	Supported with camera tracking host / panoramic presets / central control
PC software	Meeting preparation · management · voting · microphone control

AUDIO & CONNECTIVITY	
Input interface	RCA socket (2-way)
Output interface	RCA socket 2-way · XLR socket 1-way · 8P aviation socket 5-way
External line I/O	2 audio external line inputs · 2 audio line outputs · 1 balanced output
Ring connection	2-way 8-core aviation connector supports two hand-in-hand ring wiring methods

06 TECHNICAL SPECIFICATIONS - CONTINUED

POWER & AUDIO PERFORMANCE	
Power	110 - 240 V
Power consumption	10 W
Max power	350 W
Output power	<= 110 W / 24 V per channel
Audio output impedance	100 ohm balanced
Microphone input	Impedance: 100 kohm · Level: -60 dB
Distortion	< 0.5%
Signal-to-noise ratio	> 85 dBA
Frequency response	40 Hz - 20 kHz
Crosstalk attenuation (1 kHz)	> 50 dB

PHYSICAL	
Dimensions	483 L x 275 W x 88 H mm

07 ORDERING INFORMATION

MODEL	DESCRIPTION	NOTES
J120M	Digital convergence wired conference host - AOIP / TCP-IP, touchscreen, ANC/AFC, voting and camera tracking	Wired / wireless convergence host

Specifications on this datasheet refer to the J120M conference host. Microphone units, external controllers and related conference components are specified separately as required.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies conference systems, audio processors and installed audio-visual solutions for boardrooms, chambers and command environments; products are manufactured at audited partner facilities.

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