

J I R - P M 8 C

8-WAY CENTRAL MANAGEMENT SYSTEM

Programmable intelligent control gateway for AV, command centers, meeting rooms, building automation and integrated control environments.

LINUX	8 RELAY	8 I/O	8 IR/SERIAL	6 COM	TCP/IP	19-inch
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01 OVERVIEW

The Jistron JIR-PM8C is an intelligent central control gateway designed for command centers, meeting rooms, building automation, multimedia spaces and other integrated-control environments. Built on a Linux platform, it combines programmable logic, protocol processing and web-based user interfaces. The system provides relay, digital I/O, infrared / serial, multi-format bidirectional serial and Ethernet connectivity, while supporting browser-based Vision Node and Logic Node programming for local or cloud-oriented control development.

02 KEY FEATURES

- Linux control platform**
 i.MX ARM Cortex-A7 platform with Linux 4.1.15 kernel, 512MB DDR3 RAM and 512MB NAND Flash.
- 8 digital I/O inputs**
 Eight programmable dry-contact digital inputs support alarm, sensor and automation signal acquisition.
- Six bidirectional COM ports**
 Three DB9 RS-232 ports plus three 7-pin ports supporting RS-232, RS-422 or RS-485.
- Three control interfaces**
 Supports simultaneous operation of three independent or interrelated user control interfaces.
- 8 isolated relays**
 Eight normally-open low-voltage relay outputs, each rated up to 30VDC/AC at 1A.
- 8 IR / serial outputs**
 Eight ports can operate as infrared outputs or one-way RS-232 serial outputs for device control.
- Browser-based programming**
 Vision Node and Logic Node run through a modern browser for UI design, logic programming and remote debugging.
- Rack-mount design**
 Standard 19-inch mountable chassis supports professional AV and command-center installation.

03 CONTROL, PROGRAMMING & INTEGRATION

VISION NODE	LOGIC NODE	HTML5 UI	TCP/IP	RS232	RS422/485	RELAY / I-O
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04 SYSTEM FUNCTIONS

1 VISION NODE UI

Browser-based human-machine interface design with pages, controls, dynamic graphics and reusable component groups.

3 CLOUD PROGRAMMING

Supports browser access for local or cloud-platform programming without installing dedicated desktop software.

5 MULTI-PROTOCOL SERIAL

Bidirectional ports support RS-232, RS-422 and RS-485 with selectable communication rates up to 115200bps.

7 MACRO & MODULE SHARING

Control modules can be grouped, reused and shared as macro resources across projects and applications.

2 LOGIC NODE

Graphical logic and protocol programming for Ethernet, serial, infrared, relay and I/O control functions.

4 REMOTE DEBUGGING

Remote online debugging, diagnosis and programming reduce the need for on-site engineering visits.

6 CUSTOM PROTOCOLS

Supports standard network protocols and user-defined control logic, including custom JavaScript function modules.

8 MULTI-USER CONTROL

Three independent or coordinated interfaces support distributed and multi-point control scenarios.

05 CONNECTIVITY & DEPLOYMENT

■ Ethernet LAN

10/100M RJ45 Ethernet interface supports device access, network control, engineering upload and remote debugging.

■ Digital I/O

Eight programmable dry-contact inputs integrate sensors, alarm contacts and automation signals.

■ Serial interfaces

Six bidirectional serial interfaces cover standard RS-232 plus configurable RS-232/422/485 applications.

■ Relay control

Eight isolated normally-open relay outputs support screens, power modules and other low-voltage control loads.

■ Infrared / serial

Eight programmable IR or unidirectional serial outputs provide flexible endpoint control.

■ Professional installation

Standard rack-mount or plane-mount installation supports control rooms, meeting spaces and building systems.

06 TECHNICAL SPECIFICATIONS

SYSTEM PLATFORM	
CPU	i.MX ARM Cortex-A7, 528MHz
Operating system	Linux 4.1.15 kernel
Memory	512MB DDR3 RAM
Flash	512MB NAND Flash
User interfaces	Supports three independent or interrelated control UIs
Programming environment	Vision Node and Logic Node via browser-based B/S architecture
CONTROL INTERFACES	
Relay outputs	8 x isolated low-voltage relay, normally open; 30VDC/AC, 1A per channel
Digital I/O	8 x digital I/O input
Infrared / serial	8 x infrared or one-way RS-232 serial output
COM A, B, C	3 x DB9 bidirectional RS-232 serial ports
COM D, E, F	3 x 7-pin bidirectional RS-232 / RS-422 / RS-485 serial ports
Serial data rate	Selectable standard rates from 2400 to 115200bps
LAN	1 x RJ45 10M/100M Ethernet interface
USB	1 x USB interface
Reset	1 x system reset button
Status LEDs	3 x system status indicators: PWR, ACT and STA
Reserved interface	1 x system reserved debugging interface

06 TECHNICAL SPECIFICATIONS - CONTINUED

GENERAL	
Power supply	24VDC, 1A
Installation	Standard 19-inch mountable or plane mounting
Operating temperature	5°C to 45°C
Relative humidity	10% to 90%
Dimensions (H x W x D)	45 x 430 x 192 mm; width excludes rack ears, depth excludes terminals
Net weight	Approx. 3.2 kg, excluding packaging and accessories

CONTROL ARCHITECTURE	
Vision Node	Web-based user-interface design with HTML5 dynamic and vector graphics
Logic Node	Graphical logic / protocol editor for network, serial, IR, relay and I/O control
Custom functions	Supports user-built JavaScript function modules
Network protocols	Supports TCP, UDP, Telnet, HTTP and extensible private / custom network protocols
Remote capabilities	Remote online debugging, diagnosis and programming

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
JIR-PM8C	8-way Central Management System for programmable AV and automation control	8 Relay · 8 I/O · 8 IR/Serial · 6 COM · LAN · Linux

Specifications are derived from the JIR-PM8C product documentation and are subject to change without prior notice.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies professional conference, control and AV infrastructure solutions for meeting rooms, command environments and integrated installations.

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