

An All-in-One that is as affordable as a „smart relay” - full-function PLC combined with a textual HMI and keyboard, with up to 40 onboard I/Os.

Meet the New Jazz 2 series Advantages:

- Faster performance - 30x faster
- Double the memory
- Built-in mini-USB programming port
- Ethernet via Add-on Port
- Fully compatible with current Jazz projects

Features:

HMI

- Up to 60 user-designed screens
- Multilingual: supports over 15 languages and 20 graphic symbols

PLC

- Ladder Logic programming ensures functional flexibility
- Functions include: interrupt, loops, math, store & compare functions
- Date & Time-based control
- High-speed counters & PWM outputs
- Direct temperature inputs
- Auto-tune PID, up to 4 loops

Communication

- SMS messaging via GSM
- Remote Access utilities
- PC access via MODBUS or OPC server
- Supports MODBUS protocol



Jazz®-J
Flat Panel



Jazz®
Classic Panel

“The Unitronics PLC provided the perfect solution for our need for control. Whether it was safety, mechanical or functionality, the Jazz had it all.”

Peter Spano,
President of GTS

Article	Summary	Inputs ¹				Outputs				Operating voltage	
		Digital ²	HSC/Shaft-encoder ²	Analog	Temperature Measurement	Transistor ³	PWM/HSO ³	Relay	Analog		
JZ20-J-R10	6 Digital Inputs 4 Relay Outputs	6	2 10kHz, 16-bit	None	None	None	None	4	None	24VDC	
JZ20-J-R16	6 Digital, 2 D/A, 2 Analog Inputs ¹ 6 Relay Outputs	8		2 0-10V 10 or 12-bit 2 0-20mA, 4-20mA 10-bit	None	None	None	6	None	24VDC	
JZ20-J-R16HS	6 Digital, 3 HSC/Shaft-encoder, 2 A/D, 2 AI, 6 Relay outputs	8		2 0-10V 10 or 12-bit 2 0-20mA, 4-20mA 10-bit	None	None	None	6	None	24VDC	
JZ20-J-R31	16 Digital, 2 D/A, 2 Analog Inputs ¹ 11 Relay Outputs	18		2 0-10V 10 or 12-bit 2 0-20mA, 4-20mA 10-bit	None	None	None	11	None	24VDC	
JZ20-J-T10	6 Digital Inputs 4 Transistor Outputs	6		None	None	4 pnp	None	None	None	24VDC	
JZ20-J-T18	6 Digital, 2 D/A, 2 Analog Inputs ¹ 8 Transistor Outputs	8		2 0-10V 10-bit 2 0-20mA, 4-20mA 10-bit	None	8 pnp	None	None	None	24VDC	
JZ20-J-T20HS	6 Digital, 3 HSC/Shaft-encoder, 2 A/D, 2 AI, 10 Transistor outputs	8		2 0-10V 10-bit 2 0-20mA, 4-20mA 10-bit	None	8 pnp	2 32kHz	None	None	24VDC	
JZ20-J-T40	16 Digital, 2 D/A, 2 Analog Inputs ¹ 20 Transistor Outputs	18		2 0-10V 10-bit 2 0-20mA, 4-20mA 10-bit	None	20 pnp	None	None	None	24VDC	
JZ10-J-UN20	9 Digital, 2 D/A, 1 Analog 1 TC/PT100 Inputs ¹ 5 Relay 2 Transistor Outputs	11		1 5kHz, 16-bit	2 0-10V 10-bit 1 0-20mA, 4-20mA 10-bit	1 Thermocouple, PT100	2 pnp	2	5	None	24VDC
JZ10-J-UA24	9 Digital, 2 D/A, 2 Analog 2 TC/PT100 Inputs ¹ 5 Relay 2 Analog 2 Transistor Outputs	11			2 0-10V 10-bit 2 0-20mA, 4-20mA 10-bit	2 Thermocouple, PT100	2 pnp	2	5	2 +/-10V, 4 -20mA 12-bit	24VDC
JZ10-J-PT15	3 Digital, 3 D/A, 3 PT1000/NI1000 Inputs ¹ 3 Relay 1 Transistor Outputs	6	3 0-10V ² 10-bit		3 PT1000/NI1000	1 pnp	1	5	None	24VDC	

Jazz 2 – Soon to come

Product Details

Program	
Ladder Code Memory	JZ20: 48K • JZ10: 24K
Memory Operands	256 coils, 256 registers, 64 timers
Operator Panel	
Type	STN LCD
Display	2 lines x 16 characters
Touchscreen	16 keys, 10 of which may be user-labeled
General	
Power Supply	24VDC
Battery	10 years typical at 77°F, battery back-up for RTC and system data, including variable data
Clock	Real-time clock functions (date and time)
Environment	NEMA4X/IP65 (when panel mounted)
Standard	CE, UL Many of our products are also UL Class 1 Div 2 and GOST certified - please contact Unitronics
Programming Port	JZ20: On Board Mini USB • JZ10: Article No.: JZ-PRG sold separately
Communication	
Serial	RS232/RS485 Add-on port (isolated) Article No.: JZ-RS4 sold separately
Ethernet	JZ20: Ethernet add-on port Article No.: MJ20-ET1 sold separately • JZ10: Not supported

¹ In some models certain inputs are adaptable, and can function as either digital or analog. Adapting requires input pins. This reduces the number of digital inputs. Pin requirements: • Each analog input requires 1 pin. ² Note that the high-speed inputs are included in the total number of digital inputs. ³ Note that the high-speed outputs are included in the total number of npn/pnp digital outputs. ⁴ In order to download applications and enable communications, install Jazz® with the appropriate Add-on Module. JZ20 can be programmed via built-in USB device port.

Add-on modules and accessories²

New!

COM Port kit	Ethernet Communication Port	Program Cloner module	Keypad Slide kit
RS232/RS485 Add-on port (isolated) Article No.: JZ-RS4	Ethernet add on port Supported by Jazz® 2 series only Article No.: MJ20-ET1*	Copy applications from PLC to PLC Article No.: MJ20-MEM1	Customize the Jazz® keypad to your application Article No.: MJ20-JZ-SL1

* Not yet UL certified