

UNITRONICS Jazz[®] Micro-OPLC[™]

Jazz[®] series featuring:

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
- Compatible with current Jazz[®] models

HMI

- Up to 60 user-designed screens
- Multilingual: supports over 15 languages & 20 graphic symbols
- Scroll between pre-programmed recipes/menus

PLC

- Ladder Logic programming ensures functional flexibility
- Functions include: interrupt, loops, math, store & compare functions
- Time-based control in 3 clicks
- High-speed counters & PWM outputs
- Direct temperature inputs
- Auto-tune PID, up to 4 loops

Communication²

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

Flat panel



Jazz[®]-J

Classic Panel



Jazz[®]

¹ These models comprise a total of 10/20 inputs (model-dependent). 6/16 (model-dependent) of these may be wired, in a group, as either digital npn or pnp. 2 inputs have added functionality. Both may be wired in a group as npn, pnp, or analog (voltage) inputs. Note that it is also possible to individually wire 1 input as a pnp input, and the other as an analog input. The two remaining inputs are analog (current).

² In order to download applications and enable communications, install Jazz[®] with the appropriate Add-on Module.

³ Certain inputs can function as high-speed counters, or as normal digital inputs.

⁴ Jazz[®]2 units supplied with the following new features: New CPU allowing a more than 30 times faster performance, 48K memory size for Ladder code and OS and built-in USB programming port.

Much more than a “smart relay”. Full-function PLC and HMI, with up to 40 onboard I/Os, all in one device

New! Jazz 2 series

Classic Panel	JZ20-R10	JZ20-R16	JZ20-R31	JZ20-T10	JZ20-T18	JZ10-11-T40	JZ10-11-UN20	JZ10-11-UA24	JZ10-11-PT15
New Flat Panel	JZ20-J-R10	JZ20-J-R16	JZ20-J-R31	JZ20-J-T10	JZ20-J-T18	JZ10-J-T40	JZ10-J-UN20	JZ10-J-UA24	JZ10-J-PT15
	6 Digital Inputs 4 Relay Outputs	6 Digital, 2 D/A, 2 Analog Inputs ¹ 6 Relay Outputs	16 Digital, 2 D/A, 2 Analog Inputs ¹ 11 Relay Outputs	6 Digital Inputs 4 Transistor Outputs	16 Digital, 2 D/A 2 Analog Inputs ¹ 11 Relay Outputs	16 Digital 2 D/A, 2 Analog Inputs ¹ 20 Transistor Outputs	9 Digital, 2 D/A 1 Analog 1 PT100/TC Inputs ¹ 5 Relay 2 Transistor Outputs	9 Digital, 2 D/A 1 Analog, 1 PT100/TC Inputs ¹ 5 Relay, 2 Analog 2 Transistor Outputs	3 Digital, 3 D/A 3 PT1000/ NI1000 Inputs ¹ 5 Relay 1 Transistor Outputs
Inputs									
Digital pnp/npn	6	8	18	6	8	18	11	11	6
High-speed Counters ³	2 5kHz, 16-bit						1 5kHz, 16-bit		
Analog	None	2 10 or 12-bit, 0-10V & 2 10-bit, 0-20mA, 4-20mA	2 10 or 12-bit, 0-10V & 2 10-bit, 0-20mA, 4-20mA	None	2 10-bit, 0-10V and 2 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V & 2 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V and 1 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V and 2 10-bit 0-20mA, 4-20mA	3 10-bit 0-10V
Temperature Measurement	None	None	None	None	None	None	1 PT100/TC	2 PT100/TC	3 PT1000/NI1000
Outputs									
Digital	4 relay	6 relay	11 relay	4 pnp	8 pnp	20 pnp	5 relay, 2 pnp	5 relay, 2 pnp	5 relay 1 pnp/npn
High-speed Outputs/PWM	None	None	None	2 PWM	2 PWM	2 PWM	2 PWM	2 PWM	1 HSO
Analog	None	None	None	None	None	None	None	2 12-bit +/- 10V, 4-20mA	None
Program									
Ladder Code Memory (virtual)	48K						24K		
Memory Operands	256 coils, 256 registers, 64 timers								
Operator Panel									
Type	STN LCD								
Display Size	2 lines x 16 characters								
Keypad									
Keys	16 keys, 10 of which may be user-labeled								
General									
Power Supply	24VDC								
Battery	10 years typical at 25°C, battery back-up for RTC and system data, including variable data								
Environment	IP65/NEMA4X (when panel mounted)								
Clock	Real-time clock functions (date and time)								
Programming port	On Board Mini USB					Article No.: JZ-PRG sold separately			
Communication									
Serial	RS232/RS485 Add-on port (isolated) Article No.: JZ-RS4 sold separately								
Ethernet	Ethernet add on port Article No.: MJ20-ET1 sold separately					Not supported			

Add-on modules² and accessories

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

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