

# Jazz<sup>®</sup> Micro-OPLC<sup>™</sup>

## Jazz<sup>®</sup> series featuring:

### Meet the New Jazz<sup>®</sup> 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<sup>®</sup> 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

### Communication<sup>2</sup>

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



<sup>1</sup> 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).

<sup>2</sup> In order to download applications and enable communications, install Jazz<sup>®</sup> with the appropriate Add-on Module.

<sup>3</sup> Certain inputs can function as high-speed counters, or as normal digital inputs.

... Replace that "smart-relay" with a real PLC/HMI ...



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**

	JZ20-R10	JZ20-R16	JZ20-R31	JZ10-11-T10	JZ10-11-T17	JZ10-11-T40	JZ10-11-UN20	JZ10-11-UA24	JZ10-11-PT15
	6 Digital Inputs 4 Relay Outputs	6 Digital, 2 D/A, 2 Analog Inputs <sup>1</sup> 6 Relay Outputs	16 Digital, 2 D/A, 2 Analog Inputs <sup>1</sup> 11 Relay Outputs	6 Digital Inputs 4 Transistor Outputs	6 Digital, 2 D/A 2 Analog Inputs <sup>1</sup> 7 Transistor Outputs	16 Digital 2 D/A, 2 Analog Inputs <sup>1</sup> 20 Transistor Outputs	9 Digital, 2 D/A 1 Analog 1 PT100/TC Inputs <sup>1</sup> 5 Relay 2 Transistor Outputs	9 Digital, 2 D/A 2 Analog, 2 PT100/TC Inputs <sup>1</sup> 5 Relay, 2 Analog 2 Transistor Outputs	3 Digital, 3 D/A 3 PT1000/NI1000 Inputs <sup>1</sup> 5 Relay 1 Transistor Outputs
<b>Inputs</b>									
Digital pnp/npn	6	8	18	6	8	18	11	11	6
High-Speed Counters <sup>4</sup>	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 & 2 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V & 2 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V & 1 10-bit 0-20mA, 4-20mA	2 10-bit, 0-10V & 2 10-bit 0-20mA, 4-20mA	3 10-bit 0-10V <sup>2</sup>
Temperature Measurement	None	None	None	None	None	None	1 PT100/TC	2 PT100/TC	3 PT1000/NI1000
<b>Outputs</b>									
Digital	4 relay	6 relay	11 relay	4 pnp	7 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
<b>Program</b>									
Ladder Code Memory (virtual)	48K			24K					
Memory Operands	256 coils, 256 registers, 64 timers								
<b>Operator Panel</b>									
Type	STN LCD								
Display Size	2 lines x 16 characters								
<b>Keypad</b>									
Keys	16 keys, 10 of which may be user-labeled								
<b>General</b>									
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					
<b>Communication</b>									
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 modules and accessories<sup>2</sup>**

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 <b>Supported by Jazz® 2 series only</b> 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