



NEW!

One Integrated Solution for Control & Automation

Powerful Software | Full Range of PLCs | Complete Line of VFDs

Outstanding Support

UNISTREAM[®] PLC

About Unitronics

Unitronics designs, manufactures, and markets advanced control and automation solutions. Our extensive offering includes a complete line of PLCs, PLCs with integrated HMI, full line of VFDs, a broad array of I/Os and complementary devices, as well as programming software for all aspects of control, motion, HMI, and communications.

Unitronics controllers range from micro-PLC + HMI units for simple machine control, to complex controllers with advanced functions, a variety of onboard IOs and multiple communication options – including support for Industry 4.0 (smart factory) technology.

Easy to use, efficient, and affordable, our products have been automating processes, systems and standalone applications since 1989. Today, our field-proven products automate hundreds of thousands of installations in diverse fields, including petrochemicals, automotive, food processing, plastics & textiles, energy & environment, water & waste water management – anywhere automated processes are required.

Unitronics is represented by more than 160 distributors in over 55 countries around the globe, providing our customers with local support in their local languages.

Unitronics Benefits:

- **Full Product Range:** PLCs, PLC + HMI controllers, I/Os, and VFDs to meet all application needs.
All software and utilities are provided at no additional charge
- **All-in-One Software:** Configure and program PLC, HMI, VFD, and all other components in one easy environment
- **Industry 4.0:** SNMP, FTP, e-mail, SMS, GPRS/GSM, Remote Access via VNC Client / built-in Webserver, SQL & MQTT
- **Rich Features:** Auto-tuned PID, datalogging, Recipes, HMI Trends & Gauges, Alarms, multi-level passwords, multi-language support, Datalog via CANopen, CAN Layer2, MODBUS, EtherNet/IP and more
- **Outstanding Support:** Unitronics exceeds the industry standard for customer care. You benefit from personalized, expert sales and technical support without fees or tiers
- **Customized Solutions:** Products tailored-made according to specifications

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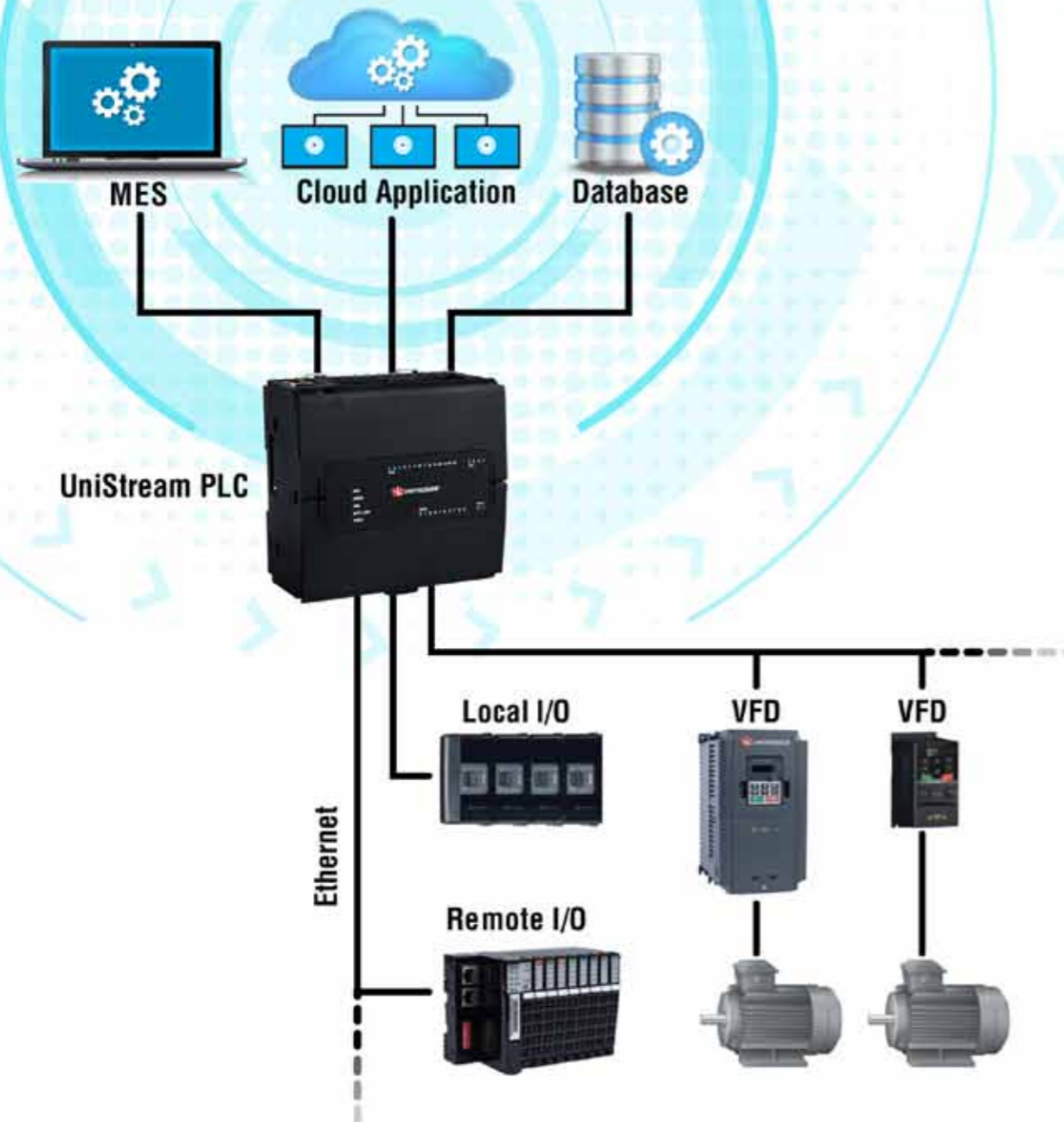
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This catalog provides a general overview of Unitronics products. Before you place an order, please check the complete technical specifications for each product, located in the Unitronics website.

One Integrated Solution for Control and Automation



Broad Range of PLCs and HMI Panels

- Powerful, Multi-function Controllers
- Up to 2048 I/Os per controller
- Quality HMI Panels
- Field-hardened

Full Range of VFDs

- Easy to Program
- Simple to Use
- Setup & Program via Software or VFD Keypad

All-in-One Programming Software

- Program Ladder Logic
- Design HMI & Web pages
- Configure VFDs
- Hardware & Communication Configuration
- One Easy Environment

Total Solution for Industry 4.0

- MQTT
- SQL
- FTP
- SNMP
- Built-in Web Server
- Remote Access via VNC



Powerful, Robust Controller with a New Concept: Virtual HMI

UNISTREAM® PLC provide you with advanced communication support – including Industry 4.0 - built-in I/Os, expandable to over 2,000 I/Os expansions and enhance your ability to master the complex, demanding control tasks required by your machine or process application.

- Two technologies in one product -



Virtual HMI

- Build your PLC and HMI applications using the same programming software
- Download your program applications to the PLC
- The UniStream PLC simultaneously stores & runs both the program logic and HMI application
- Remotely operate your machine or process via any mobile phone, PC, or any other display device



Hardware

- High-performance robust PLC matches vast application requirements
- Built-in I/O, expand to more than 2,000 I/Os
- Range of I/O modules: digital, analog, high-speed and temperature
- Advanced support for Industry 4.0

UniLogic®: Award-winning software - Cuts development time by 50%!

UniLogic® offers a fast, easy solution to OEMs and System Integrators—you program all tasks using the same software environment. Build the PLC application, design HMI screens, create Web pages in multiple languages, and save it all in a Library to re-use in other projects.

Available in three series: Pro (B10), Standard (B5), and Basic (B3)

UNISTREAM® PLC

Features:

PLC

- I/O options include digital, analog, high speed, and temperature
- Expand locally: up to 2048 I/Os¹
- Expand remotely: via UniStream Remote I/O
- Auto-tune PID, up to 64 independent loops²
- Recipes & data logging via data tables & sampling¹
- MicroSD card - log, backup, clone & more¹
- Function Blocks & Structs

Communication

Built-in ports:

- 2 Ethernet TCP/IP
- 1 USB host
- 1 Mini USB for programming¹

Add-on ports:³

- 1 CANbus
- 1 RS485
- 1 RS232

Protocols:

- MQTT Client
- EtherNet/IP
- Modbus TCP
- CANopen, CANlayer2, UniCAN
- SNMP
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

General Features:

- SQL Client⁴
- Web Server⁴
- E-mail & SMS
- Remote access via VNC
- FTP server & client¹
- GPRS

Virtual HMI

- Full HMI functionality
- Support different resolution type
- Includes Drag & Drop graphic library
- Multi-language display
- Built-in Alarm Screens
- PDF viewer¹
- Multi-level password protection – easy and fast

Supports UniStream® Displays & HMI Panels:

UniStream Display:

- Size: 5" (USL-050-B05)
- Size: 7" (USL-070-B05)

UniStream HMI Panels:

- Size: 10.4" (USP-104-B10)
- Size: 15.6" (USP-156-B10)



UniStream Display



¹ Pro (B10) and Standard (B5) only.

² Basic (B3) supports up to 2 independent PID loops

³ Up to two serial modules for B10/B5 and one for B3

⁴ Pro (B10) only

UNISTREAM® PLC I/O Configurations

Article Number	Summary	Inputs				Outputs				Operating Voltage
		Digital (Isolated)	HSC/Shaft-encoder ¹	Analog	Temperature inputs, RTD/TC	Transistor ² (Isolated)	PWM ²	Relay	Analog	
USC-B5-B1 USC-B10-B1	No built-in I/Os	-	-	-	-	-	-	-	-	12/24VDC
USC-B5-TR22 USC-B10-TR22	10 Digital Inputs, 2 Analog Inputs, 2 Transistor Outputs, npn, including 2 PWM Outputs, 8 Relay Outputs	10 Sink/Source	-	2 0-10V, 0-20mA, 4-20mA 12-bit	-	2 Sink (nnp)	2 30kHz	8	-	24VDC
USC-B5-T24 USC-B10-T24	10 Digital Inputs, 2 Analog Inputs, 12 Transistor Outputs, pnp, including 2 PWM Outputs	10 Sink/Source	-	2 0-10V, 0-20mA, 4-20mA 12-bit	-	12 Source (pnp)	2 3kHz	-	-	24VDC
USC-B5-RA28 USC-B10-RA28	14 Digital Inputs, including 2 HSC, 2 Analog Inputs, 2 Temperature Inputs, 8 Relay Outputs, 2 Analog Outputs	14 Sink/Source	2 90kHz 32-bit	2 (isolated) 0-10V, 0-20mA, 4-20mA 14-bit	2 (isolated) Thermocouple, PT100/Ni100/ Ni120/ PT1000/Ni1000	-	-	8	2 0-10V 12-bit, ±10V, 11-bit+sign 0-20mA, 4-20mA 12-bit	24VDC
USC-B5-TA30 USC-B10-TA30	14 Digital Inputs, including 2 HSC, 2 Analog Inputs, 2 Temperature Inputs, 10 Transistor outputs, pnp, including 2 PWM Outputs, 2 Analog Outputs	14 Sink/Source	2 90kHz 32-bit	2 (isolated) 0-10V, 0-20mA, 4-20mA 14-bit	2 (isolated) Thermocouple, PT100/Ni100/ Ni120/ PT1000/Ni1000	10 Source (pnp)	2 3kHz	-	2 0-10V 12-bit, ±10V 11-bit+sign 0-20mA, 4-20mA 12-bit	24VDC
USC-B5-R38 USC-B10-R38	24 Digital Inputs, including 4 HSC, 2 Analog Inputs, 12 relay Outputs	24 Sink/Source	4 90kHz 32-bit	2 0-10V, 0-20mA, 4-20mA 12-bit	-	-	-	12	-	24VDC
USC-B5-T42 USC-B10-T42	24 Digital Inputs, including 4 HSC, 2 Analog Inputs, 16 Transistor Outputs, pnp, including 2 PWM Outputs	24 Sink/Source	4 90kHz 32-bit	2 0-10V, 0-20mA, 4-20mA 12-bit	-	16 Source (pnp)	2 3kHz	-	-	24VDC
USC-B3-R20	10 Digital Inputs, 2 Analog Inputs, 8 Relay Outputs	10 Sink/Source	-	2 0-10V, 0-20mA, 4-20mA 12-bit	-	-	-	8	-	24VDC
USC-B3-T20	10 Digital inputs, 2 Analog Inputs, 8 Transistor Outputs, pnp, including 2 PWM Outputs	10 Sink/Source	-	2 0-10V, 0-20mA, 4-20mA 12-bit	-	8 Source (pnp)	2 3kHz	-	-	24VDC

¹ Note that the high-speed inputs are included in the total number of digital inputs.
² Note that the PWM outputs are included in the total number of transistor outputs.

Expand Locally via Uni-I/O™

Expand up to 2048 I/O via Uni-I/O modules.



	Article Number	Inputs				Outputs			
		Digital (Isolated)	HSC/Shaft-encoder ⁴	Analog	Temperature Measurement	Transistor ⁵ (Isolated)	PWM/HSO ⁵	Relay	Analog
Digital	UID-1600	16 Sink/Source	—	—	—	—	—	—	—
	UID-0808T	8 Sink/Source	—	—	—	8 Source(pnp)	—	—	—
	UID-W1616T ³	16 Sink/Source	—	—	—	16 Source(pnp)	—	—	—
	UID-0808THS ¹	8 Sink/Source	250kHz 32-bit	—	—	8 Source(pnp)	2 ² 250kHz 2 3kHz	—	—
	UID-0016T	—	—	—	—	16 Source(pnp)	—	—	—
	UID-0808R	8 Sink/Source	—	—	—	—	—	8	—
	UID-W1616R ³	16 Sink/Source	—	—	—	—	—	16	—
Analog and Temperature	UID-0016R	—	—	—	—	—	—	16	—
	UIA-0006	—	—	—	—	—	—	—	6 (Isolated) 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit
	UIA-0402N	—	—	4 0-10V, 0-20mA, 4-20mA 13-bit	—	—	—	—	2 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit
	UIA-0800N	—	—	8 0-10V, 0-20mA, 4-20mA 13-bit	—	—	—	—	—
	NEW! UIA-0800NH	—	—	8 0-20mA, 4-20mA With HART communication	—	—	—	—	—
	UIS-04PTN	—	—	—	4 PT100/Ni100/Ni120	—	—	—	—
	UIS-04PTKN	—	—	—	4 PT1000/Ni1000/Ni1200	—	—	—	—
Digital/Analog	UIS-08TC	—	—	—	8 (Isolated) Thermocouple ⁷	—	—	—	—
	UIS-WCB1 ^{1,3}	10 Sink/Source	2 10kHz 32bit	2 (Isolated) 0-10V, 0-20mA, 4-20mA 14-bit	2 (Isolated) Thermocouple, PT100/Ni100/Ni120	2 ⁶ Sink (nnp)	2 250kHz	8	2 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit
	UIS-WCB2 ^{1,3}	10 Sink/Source	2 10kHz 32bit	2 (Isolated) 0-10V, 0-20mA, 4-20mA 14-bit	2 (Isolated) Thermocouple, PT100/Ni100/Ni120	8 Source (pnp) 2 ⁶ Sink(nnp)	2 250kHz (Sink outputs only)	—	2 0-10V 14-bit, ±10V 13-bit+sign, 0-20mA, 4-20mA 13-bit

¹ This module utilizes two high speed blocks that can each be assigned either to the inputs or to the outputs.
² 2 outputs are high-speed, up to 250kHz; function as normal or high-speed PWM (same freq. and different duty-cycles). 2 outputs are normal speed; function as normal-speed PWM outputs (same freq. and same duty cycle).
³ Width: 1 'wide' I/O module = 1.5 'slim' I/O modules.
⁴ Note that the high-speed inputs are included in the total number of digital inputs.
⁵ Note that the high-speed outputs are included in the total number of digital outputs.
⁶ Not isolated.
⁷ Channel to channel isolated.

Local Expansion Adapters

UAG-XK125	Short Range Kit, 125 cm
UAG-XKP125	Short Range + embedded Power Supply Kit, 125 cm
UAG-XK300	Short Range Kit, 300 cm
UAG-XKP300	Short Range Kit + embedded Power Supply, 300 cm
UAG-XKPLXXXX	Long Range + embedded Power Supply, lengths: 600, 1200, 1500, 2000, 3000cm

Uni-COM™ Communication Modules¹

UAC-CB-01RS2	Uni-COM: 1x RS232 port
UAC-CB-01RS4	Uni-COM: 1x RS485 port
UAC-CB-01CAN	Uni-COM: 1x CANbus port

¹ Up to 2 serial modules and 1 CANbus module. Basic (B3) version support 1 serial module.

UniLogic®-UniStream®

All-in-One Programming Software



Ultimate All-in-One programming environment: configure hardware & communications, program Ladder, design HMI & web pages, configure & control VFDs and more.

Configure & Operate...

Unitronics VFDs using the same, efficient software

Build-it-Once...

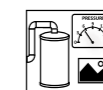
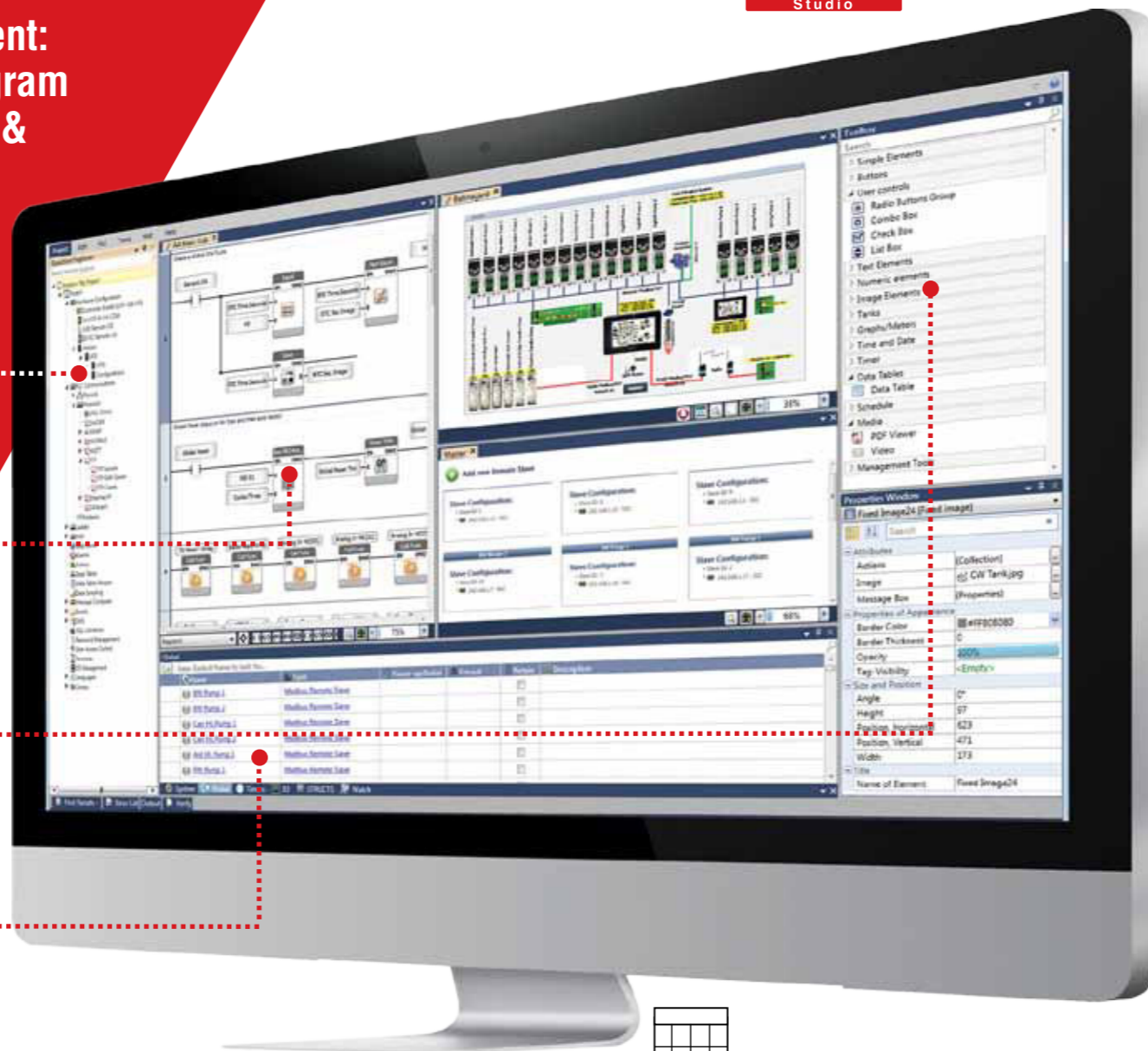
Reuse Library: Functions, HMI & Webpages

Context-Sensitive...

Toolbox for Ladder, HMI & Web Elements

Power from C...

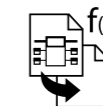
Structs & C Functions



Virtual HMI: Design HMI application & screens View via Mobile, PC, Remote Display Device

UniLogic's extensive free graphics library and HMI widgets enable you to be a graphic artist. The simple HMI editor supports layers, image transparency, overlap, and rotation. The Toolbox offers drag & drop widgets, Data Tables, complex Trend graphs and gauges for the display of run-time values, and more.

Design, download, and view on any display that supports VNC.



Build-it-Once, then Reuse - the Ultimate Time Saver

Add your UDFBs, HMI screens, HMI Custom Controls, and Web Pages to the Library--then drag & drop them where needed; UniLogic takes care of the tags. Import your Library into any project, and share it with others.



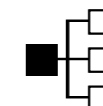
Languages - from Italian to Chinese at the Touch of a Button

UniLogic supports any language that you can type - including Asian languages such as Chinese, Japanese, and Korean. Instantly switch HMI language via user actions or program events.



Built-in Alarms - Easily Boost Application Safety

Compliant with ISA 18.2 standard guidelines for Alarm Management systems in the process industries. Detect & analyze Alarms, and take action. Export Alarm Logs via FTP to send via email, or copy directly from the controller via Flash Drive. Alarms feature full multi-language support.



Communications - Configuration not Programming

Incredibly fast, easy to configure and implement, UniStream data communications run independently of Ladder.

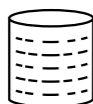
A single PLC can contain multiple slave definitions—and multiple master definitions. Communicate with any device: plug-and-play protocols such as MODBUS, CANopen, SNMP, MQTT, and EtherNet/IP.

Use Message Composer to communicate with devices such as frequency converters and bar-code readers via any Ethernet, CANbus or serial 3rd-party protocol. Also supports CANLayer 2, FTP Client/Server, SMS, email, GSM/GPRS modem.



MQTT

Via MQTT, UniStream bridges between the production floor all the way up to the MES. Supports MQTT as a 'client' that can both publish and subscribe to messages.



Structs - Tag Database on Steroids

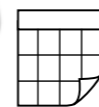
You create Structs - groups of data tags of different types organized into a single, logical unit - and reuse them across programs, especially with UDFBs (User Defined Function Blocks). UniLogic's built-in Structs enable you to configure and control hardware and complex functions such as Communications and PID.



Speed Ladder Programming - plus "C" Power

Build your Ladder: drag & drop elements that snap into place, error-free. Use the built-in C Function editor to write C functions. UniLogic means you 'write-it-once': create code to use, reuse, and export across projects.

Create UDFBs (User Defined Function Blocks) - self-contained functions for tasks such as oven control, motor control, level control, etc...



Power Data Tools - Data Sampler, Data Tables, Recipes, SQL

Data Samplers record dynamic application data, such as output values, at fixed intervals into files and display it as Trend graphs on the HMI.

Data Tables organize and manipulate data via Ladder, create data logs, implement Recipes, import/export values from/to Excel, allow users to enter/edit data into Data Tables via HMI panel, and more.

NEW SQL Connector: Access SQL databases, run Queries, connect Data Tables to SQL.



Web Server: Web Pages - No HTML Required

Design elegant web pages via a drag & drop interface, identical to the HMI editor.

A rich graphic library is at your disposal.

The Web toolbox offers user controls and widgets, enabling the end user to view and enter application data via any web browser.

Remote I/O

Article Number	Description	Connector Type
Adapter		
URB-TCP	UniStream Remote IO Ethernet Adapter	10 RTB
Digital Inputs		
URD-0800	8 Digital Inputs (Sink / Source), 24VDC	10 RTB
URD-1600-8	16 Digital Inputs (Sink / Source), 24VDC	18 RTB
URD-3200-4	32 Digital Inputs (Sink / Source), 24VDC	40 PIN IDC
URD-0400B	4 Digital Inputs, 120VAC	10 RTB
URD-0400C	4 Digital Inputs, 240VAC	10 RTB
Encoder / High Speed Counters		
URD-0200E	2 High Speed Counters / Encoder Inputs, 24VDC	10 RTB
URD-0200D	2 High Speed Counters / Encoder Inputs, 5VDC	10 RTB
Digital Outputs		
URD-0008CH	8 Digital Outputs (Source), 24VDC/0.5A	10 RTB
URD-0008CI	8 Digital Outputs (Source), 24VDC/2A	10 RTB
URD-0016CG-8	16 Digital Outputs (Source), 24VDC/0.3A	18 RTB
URD-0032CG-4	32 Digital Outputs (Source), 24VDC/0.3A	40 PIN IDC
URD-0008NH	8 Digital Outputs (Sink), 24VDC/0.5A	10 RTB
URD-0008NI	8 Digital Outputs (Sink), 24VDC/2A	10 RTB
URD-0016NG-8	16 Digital Outputs (Sink), 24VDC/0.3A	18 RTB
URD-0032NG-4	32 Digital Outputs (Sink), 24VDC/0.3A	40 PIN IDC
Relay		
URD-0004RH	4 Relay, 2A	10 RTB
URD-0004SK	4 Solid State Relay, 240VAC/DC, 0.5A	10 RTB
URD-0004SM	4 Solid State Relay, 110VAC/DC, 1A	10 RTB
URD-0004SN	4 Solid State Relay, 24VAC/DC, 2A	10 RTB
Analog Inputs 12 bit		
URA-04000	4 Analog Current Inputs 12bit	10 RTB
URA-08000	8 Analog Current Inputs 12bit	10 RTB
URA-16000-8	16 Analog Current Inputs 12bit	18 RTB
URA-0400P	4 Analog Voltage Inputs 12bit	10 RTB
URA-0800P	8 Analog Voltage Inputs 12bit	10 RTB
URA-1600P-8	16 Analog Voltage Inputs 12bit	18 RTB

Article Number	Description	Connector Type
Analog Inputs 16 bit		
URA-0400T	4 Analog Current Inputs 16bit	10 RTB
URA-1600T-8	16 Analog Current Inputs 16bit	18 RTB
URA-0400U	4 Analog Voltage Inputs 16bit	10 RTB
URA-1600U-8	16 Analog Voltage Inputs 16bit	18 RTB
Analog Outputs 12 bit		
URA-0004W	4 Analog Current Outputs 12bit	10 RTB
URA-0008W	8 Analog Current Outputs 12bit	10 RTB
URA-0004X	4 Analog Voltage Outputs 12bit	10 RTB
URA-0008X	8 Analog Voltage Outputs 12bit	10 RTB
URA-0016X-8	16 Analog Voltage Outputs 12bit	18 RTB
Analog Outputs 16 bit		
URA-0004Y	4 Analog Current Outputs 16bit	10 RTB
URA-0004Z	4 Analog Voltage Outputs 16bit	10 RTB
URA-0016Z-8	16 Analog Voltage Outputs 16bit	18 RTB
Temperature		
URS-04RT	4 RTD / Resistance	10 RTB
URS-04TC	4 Thermocouple / mV	10 RTB
URS-08RT-2	8 RTD / Resistance	20 PIN IDC
URS-08TC-2	8 Thermocouple / mV	20 PIN IDC
Power		
URP-PS24V	Adapter Additional System Power Expansion, 1A	10 RTB
URP-C0V0V	8 0VDC Potential Distribution	10 RTB
URP-C24V24V	8 24VDC Potential Distribution	10 RTB
URP-C0V24V	4 24VDC, 4 0VDC Potential Distribution	10 RTB
URP-PDIST	External Universal Power Distribution	10 RTB
URP-SHIELD	External Universal Shield Distribution	10 RTB
Spare Parts		
URB-END	Adapter End Module	
URO-0105	10 Removable Terminal Block For I/O	10 RTB
URO-0106	18 Removable Terminal Block For I/O	18 RTB
URO-0101	10 Removable Terminal Block For Potential Distribution	10 RTB
URO-0102	10 Removable Terminal Block For External Power	10 RTB

- Ethernet based
- Up to 63 I/O modules per adapter
- Slim modules - only 12mm
- 16-bit Analog Resolution
- Operating temperature: -40°C to 70°C
- Broad range of digital and analog modules



Variable Frequency Drives

Use as a stand-alone product or integrated with Unitronics controllers



VFD: Easy to Program. Simple to Use.

- EMC built-in filters
- Variety of mounting options
- Temperature - extended operating range
- Modbus RTU fieldbus
- UL, TÜV-SÜD safety and CE certified
- Braking units - built-in
- Sensorless Vector and Torque control
- Heavy-duty overload capacity
- STO (Safe Torque Off)

Use as an All-in-One package

Program the VFD using the same programming software as our controllers:



VFD Specifications



		UMI-B1 EU	UMI-B1 UL	UMI-B5 UL
Power	Input Voltage	200-240VAC, Single Phase 380-440VAC, Three Phase	200-240VAC, Single Phase 200-240VAC, Three Phase 380-480VAC, Three Phase	200-240VAC, Three Phase 380-480VAC, Three Phase
	Input Frequency	50/60Hz		
	Supported Motors	Asynchronous Induction Motors, Three Phase Input		Asynchronous Induction Motors, Three Phase Input Permanent Magnet Synchronous Motors, Three Phase Input
	Output Frequency	0-400Hz		
	Overload Capacity		150%, 60 seconds	
		180%, 10 seconds		
		200%, 1 second		
Control	Control Method	SVPWM (Space Vector PWM) SVC (Sensorless Vector Control)		
	Control Setting	MODBUS, Analog, Digital, PID, Pulse		
	Communication	MODBUS RTU RS-485		
Input	Analog Inputs	Total 2: 1 input 0-10V, 0-20mA, 1 input 0-10V		Total 3: 2 inputs 0-10V, 0-20mA, 1 input 0-10V
	Digital Inputs	Total 5: 4 inputs 1kHz, 1 input 50kHz		Total 9: 8 inputs 1kHz, 1 input 50kHz
Output	Analog Outputs	Up to 2: 1 output 0-10V, 0-20mA ≤2.2kW/3HP, (2nd output available from >2.2kW/3HP)	2 outputs 0-10V, 0-20mA	
	Digital Outputs	1 output sink/source		Total 2: 1 output sink/source, 1 output 50kHz
	Relay Outputs	Up to 2: 1 Programmable Multi-functional output. 2nd output available from >2.2kW/3HP	Total 2 Programmable Multi-functional outputs	
Features	Dynamic Braking Unit	Built-in (≤37kW/50HP)		Built-in (≤30kW/40HP)
		Optional (>37kW/50HP)		Optional (>30kW/40HP)
	EMC Filters	Built-In C3 (≥4kW/5HP), Comply with IEC/EN 61800-3 Optional C3 (<4kW/5HP), Comply with IEC/EN 61800-3		Built-In C3, Comply with IEC/EN 61800-3
General	Operating Temperature	(-10)°C/14°F – 50°C/122°F (de-rated by 1% for every 1°C/2°F above 40°C/104°F)		
	Altitude	2000m/6600 ft (de-rated by 1% for every additional 100m/330ft above 1000m/3300ft)		
	Enclosure Rating	IP20		
	Mounting Options	Wall and Rail (≤2.2kW/3HP)		Wall, Flange
		Wall and Flange (>2.2kW/3HP)		
	Cooling	Air-cooling		
	Safe Torque Off	√	×	
Compliance	CE, TÜV-SÜD Safety Mark		CE, UL and cUL	

VFD Models

UMI-B1 Series - STO



Article Number	Input Voltage	Rated Output Power		Rated Input Current (A)	Rated Output Current (A)	Dimensions (W x H x D mm)			Safety Class
		kW	HP						
UMI-0004BE-B1	Single phase 200-240V	0.4	0.5	6.5	2.5	80	160	124	Class SIL2 PLd CAT.3
UMI-0007BE-B1		0.75	1	9.3	4.2	80	160	124	
UMI-0015BE-B1		1.5	2	15.7	7.5	80	185	141	
UMI-0022BE-B1		2.2	3	24	10	80	185	141	
UMI-0007EE-B1		0.75	1	3.4	2.5	80	185	141	
UMI-0015EE-B1	1.5	2	5	4.2	80	185	141		
UMI-0022EE-B1	2.2	3	5.8	5.5	80	185	141		
UMI-0040EE-B1	4	5	13.5	9.5	146	256	167		
UMI-0055EE-B1	5.5	7.5	19.5	14	146	256	167	Class SIL3 PLd CAT.3	
UMI-0075EE-B1	7.5	10	25	18.5	170	320	197		
UMI-0110EE-B1	11	15	32	25	170	320	197		
UMI-0150EE-B1	15	20	40	32	170	320	197		
UMI-0185EE-B1	18.5	25	47	38	200	341	185		
UMI-0220EE-B1	22	30	51	45	200	341	185		
UMI-0300EE-B1	30	40	70	60	250	400	202		
UMI-0370EE-B1	37	50	80	75	250	400	202		
UMI-0450EE-B1	45	60	98	92	282	560	238		
UMI-0550EE-B1	55	75	128	115	282	560	238		
UMI-0750EE-B1	75	100	139	150	282	560	238		
UMI-0900EE-B1	90	120	168	180	338	554	330		
UMI-1100EE-B1	110	150	201	215	338	554	330		

UMI-B1 Series - UL



Article Number	Input Voltage	Rated Output Power		Rated Input Current (A)	Rated Output Current (A)	Dimensions (W x H x D mm)		
		kW	HP					
UMI-0004BU-B1	Single phase 200-240V	0.4	0.5	6.5	2.5	80	160	124
UMI-0007BU-B1		0.75	1	9.3	4.2	80	160	124
UMI-0015BU-B1		1.5	2	15.7	7.5	80	185	141
UMI-0022BU-B1		2.2	3	20	10	80	185	141
UMI-0004CU-B1	Three phase 200-240V	0.4	0.5	3.7	2.5	80	185	141
UMI-0007CU-B1		0.75	1	5	4.2	80	185	141
UMI-0007EU-B1	Three phase 380-480V	0.75	1	3.4	2.5	80	185	141
UMI-0015EU-B1		1.5	2	5	4.2	80	185	141
UMI-0022EU-B1		2.2	3	5.8	5.5	80	185	141

UMI-B5 Series - UL



Article Number	Input Voltage	Rated Output Power		Rated Input Current (A)	Rated Output Current (A)	Dimensions (W x H x D mm)			
		kW	HP						
UMI-0007CU-B5	Three phase 200-240V	0.75	1	5	4.5	126	193	175	
UMI-0015CU-B5		1.5	2	7.7	7	146	263	181	
UMI-0022CU-B5		2.2	3	11	10	146	263	181	
UMI-0040CU-B5		4	5	17	16	170	332	216	
UMI-0055CU-B5		5.5	7.5	21	20	170	332	216	
UMI-0075CU-B5		7.5	10	31	30	230	342	216	
UMI-0110CU-B5		11	15	43	42	255	407	245	
UMI-0150CU-B5		15	20	56	55	255	407	245	
UMI-0185CU-B5		18.5	25	71	70	270	555	325	
UMI-0220CU-B5		22	30	81	80	270	555	325	
UMI-0300CU-B5		30	40	112	110	270	555	325	
UMI-0370CU-B5		37	50	132	130	325	680	365	
UMI-0450CU-B5		45	60	163	160	325	680	365	
UMI-0550CU-B5		55	75	200	200	325	680	365	
UMI-0015EU-B5		Three phase 380-480V	1.5	2	5	3.7	126	193	175
UMI-0022EU-B5			2.2	3	5.8	5	126	193	175
UMI-0040EU-B5	4		5	13.5	9.5	146	263	181	
UMI-0055EU-B5	5.5		7.5	19.5	14	146	263	181	
UMI-0075EU-B5	7.5		10	25	18.5	170	332	216	
UMI-0110EU-B5	11		15	32	25	170	332	216	
UMI-0150EU-B5	15		20	40	32	230	342	216	
UMI-0185EU-B5	18.5		25	47	38	230	342	216	
UMI-0220EU-B5	22		30	56	45	255	407	245	
UMI-0300EU-B5	30		40	70	60	255	407	245	
UMI-0370EU-B5	37		50	80	75	270	555	325	
UMI-0450EU-B5	45		60	94	92	270	555	325	
UMI-0550EU-B5	55		75	128	115	270	555	325	
UMI-0750EU-B5	75		100	160	150	325	680	365	
UMI-0900EU-B5	90		120	190	180	325	680	365	
UMI-1100EU-B5	110		150	225	215	325	680	365	

Optional Parts



External Keypads



Flange Mounting Plates



Braking Resistors



C3 Input Filters
C2 Filters

Product Designation Key

UMI - 0022	E	U	- B1
①	②	③	④ ⑤

No.	Key	Description
①	Product Line	Unitronics Motion Inverters
②	Power Range	0004:400W/0.5HP 0022:2.2kW/3HP
③	Power Rating	B: 1PH 200V-240V C: 3PH 200V-240V E: 3PH 380V-440V/480V
④	Certification	U - UL Certified E - TÜV-SÜD Certified
⑤	Product series	B1 / B5

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Unitronics' integrated solution for control & automation offers the best of two worlds: broad choice and flexibility in choosing solution components together with the simplicity and time-savings of an all-inclusive, single-vendor solution.

“ Working with the Unitronics combined PLC and HMI make other systems feel old fashioned and obsolete. The support from Unitronics, from our local supplier, to email support, to help ideas on the forum, has been absolutely fantastic. ”

Justin Butler, Energy Plant Solutions

“ After programming several other brands of PLCs, Unitronics' software is by far the most intuitive and easily understood while providing significant functionality and quality. ”

Dan Murphy, Owner of Marathon Bottling and Automation

“ Using the Unitronics products, I am able to provide technologically advanced products and services that provide competitive advantages to my clients in terms of quality, efficiency, performance, safety, cost savings, and improved asset utilization of the plant floor. ”

Jeferson Franco, an Engineer at AI7 Automation Ltda.

- Complete range of PLC's
- Full range of VFDs
- All-in-One programming software
- Added value for Industry 4.0, IIoT, and OT to IT
- Outstanding Support