Unitronics

Solutions that Simplify Complex Tasks

Founded in 1989, Unitronics designs, manufactures, and markets advanced control and automation solutions. Our goal is to simplify complex tasks in automation.

Our extensive offering includes complete lines of PLCs, AC Servo Drives & Motors, VFDs, a broad array of I/Os and complementary devices, programming software for all aspects of control, motion, HMI, and communications—and an end-to-end IIoT platform designed specifically for machine builders.

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.

Represented by more than 180 distributors in over 55 countries around the globe, Unitronics customers receive local support in their local languages.

Unitronics Benefits - One Integrated Solution for Control & Automation

- One Contact for Sales, Service, and Support
- Customized Products to your specifications
- Award-winning Software included with any purchase
- 24/7 Support - at no charge
- UniCloud: Unitronics’ Do-it-Yourself IIoT Cloud platform, designed for Machine Builders
- Integrate easily any device via communications

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Motion Control

Motion Solution: Simple to set up. Painless to program ..........................................40

Motion Solution - For information on our full lines of Servos & VFDs, refer to our Motion Control catalogue.

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 means that all components work together perfectly, every time. Unitronics’ hardware—PLC, HMI, I/Os, VFDs, AC Servos, and more—is backed by All-In-One software. Efficiently program all aspects of configuration, control, motion, HMI/Web design—easily integrate UniCloud and avoid dealing with multiple suppliers.

Controllers: a Complete Range
PLC + HMI, PLC, Cloud Controllers
- UniStream® Series - For easy execution of challenging projects
- UniStream® Cloud - Controllers with embedded cloud services
- Vision™ series - For advanced machines & automation projects
- Samba™ Series - Ideal for small machines that require graphic display
- Jazz® - Great for simple control—text-only HMI + keypad

Motion Control: Full lines of VFDs & Servos
Motion made Simple
(See our Motion catalogue)
- Automatic, transparent setup
- Built-in Diagnostics
- Communications: effortless, seamless with Unitronics products
- VFDs: high performance, cost-effective
- Servos: Servo made Simple—Ready-made Motion code, PLCopen

All-in-One Programming Software
At no extra charge
- Program Ladder Logic
- Design HMI & Web pages
- Motion—perform all tasks
- Hardware & Communication Configuration
- One Powerful Programming Environment

No-code IIoT Cloud Platform: UniCloud
Designed for Machine Builders
- Increase Profit: analyze data to reduce costs
- Secure
- Simple - No knowledge of IT needed
- Get up and running within 30 minutes
UniCloud
Complete No-Code IIoT Cloud Platform
Designed specifically for OEMs & Machine Builders

‘Go Cloud’ Under 30 Minutes
Build a working, live, fully-functional dashboard that harvests, analyzes, and displays data—in less than 30 minutes.

Use Your Data To Increase Profits
Gain full control of your data, without relying on programmers or IT/Cloud professionals.

- Monitor & improve processes
- Reduce operational and maintenance costs
- Predict failures and minimize unplanned slowdowns & shutdowns
- Integrate—easily—with any device over MODBUS protocol

SECURED
UniCloud’s architecture is designed with multi-layered security at its backbone.

NO CODE
No programming, IT knowledge, or Cloud expertise needed. UniCloud has it all—built-in cloud infrastructure, easy user interfaces & incredible functionality.

INCREASE PROFIT
Monitor & improve processes, while reducing operational and maintenance costs. Predict failures, minimize unplanned slowdowns and shutdowns.

CUSTOMIZE
Display data your way—customize data display with UniCloud’s Wizards.

Enjoy a 3-month free trial
Log into the UniCloud website - try it yourself: www.unitronics.cloud
1. **UniStream® Modular**
Create a custom control solution, perfectly matched to your requirements
Unique design enables you to create a customized controller in 3 steps: select an HMI panel, snap in a CPU, and add any I/O or communication modules necessary for your specific application.

![UniStream Modular Diagram]

- Audio Out
- MicroSD card
- 2 x USB (Host)
- Mini USB (Programming)
- 2 x Ethernet TCP/IP
- Built-in speaker
- CANbus
- RS485
- CPU
- I/O & COM Modules

2. **UniStream® Built-in**
Space-saving PLC that delivers the functionality to control complex machines
PLC+HMI+I/O built into a single, superbly compact unit in a range of built-in I/O configurations. Available in two versions: Built-in and Built-in Pro.

![UniStream Built-in Diagram]

- Mini USB (Programming)
- Ethernet TCP/IP
- USB (Host)
- MicroSD card
- Built-in I/Os
- I/O Expansion Adaptor
- COM Modules

**Remote Access** - All Unitronics controllers are securely, remotely accessible. Access UniStream from your mobile or PC, via web browser, VNC, or UniCloud’s secure tunnel utility.
UniStream®

Powerful Award-winning Programmable Logic Controllers
All UniStream models are available as ‘UniStream Cloud’ controllers, PLC with built-in cloud services.

3. UniStream® PLC

Two technologies in one product:
Powerful, Robust Controller with Virtual HMI
CPU + built-in I/O; the CPU runs both the control and HMI applications—viewable via VNC/mobile.

Virtual HMI
- Build your PLC & 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
- Remote Access - Remotely operate your machine or process via any mobile or PC, web browser, VNC, or UniCloud’s secure tunnel utility

UniStream® Cloud Series

Any UniStream controller is also available with ‘Cloud-Inside’—the easiest path to IIoT. UniStream “Cloud” controllers come with an embedded 5 years subscription to UniCloud, at no extra charge—there is no monthly subscription fee.

An industry first
PLC series with built-in, no-cost cloud services.
UniLogic®
All-in-One programming software for UniStream Controllers

Slash your development time by 50%!

Quickly setup, configure & commission PLCs, HMIs, AC Servos, VFDs & I/Os—program control, COM, Motion, HMI & Web and integrate UniCloud IIoT platform—in one software environment.

Motion
Ready-Made Motion code! Configure & Operate Unitronics Servos & VFDs — No programming needed

Build-it-Once
Reuse Library: Functions, HMI & Webpages

Context-sensitive
Toolbox for Ladder, HMI & Web Elements

Power from C
Structs & C Functions

UniCloud: your no-code IIoT Cloud Platform
Not perfected for OEMs & Machine Builders—enter the Cloud without programmers or cloud professionals. Build customized Dashboards using secure, scalable UniCloud.

Motion: Servos, Motors
Instant, seamless hardware integration, totally transparent communications, automatic setup—plus free, Ready-Made Motion code. Get moving immediately — No programming needed.

Build-it-Once, then Reuse
Add UDFBs (User Defined Function Blocks), HMI screens, & Web Pages to the Library. Drag & drop anywhere—UniLogic does the tags. Use Library across projects.

Remote Access—plus Notifications to your Mobile
Access UniStream via any VNC application from PC, cellphone, or tablet. Built-in Web Server enables secure remote monitoring & data editing. Send event notifications via email and SMS text messages.

Communicate with any Device
Message Composer: datcom via any Ethernet, CANbus (Intellectual 3rd-party protocol). Also supports CAN Layer 2, FTP Client/Server, SMS, email, GSM/GPRS.

HMI & Web Pages—You, as Artist
Elegant design via drag & drop graphics, user controls, & widgets to design screens. Display running Trend graphs & Gauges, pdfs, play audio, & stream video.

Power Data Tools
SQL Client: Connection to MS SQL Server or MySQL & Send Queries. Data Sampler: record time-sensitive dynamic data such as output values, display in Trend graphs. Data Tables: log/manipulate data via Ladder, execute Recipes.

Built-in Alarm System
Accords with ISA 18.2 guidelines for Alarm systems. Operators can detect, analyze, & act on Alarms. Export log via FTP, send via email, or to a DOK.

Communication via Configuration
Incredibly fast & easy to implement, data communications are independent of Ladder. Plug & Play MODBUS, CANopen, SNMP, EtherNet/IP.

Languages: Italian to Chinese
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.
3 steps to an All-in-One controller: select HMI panel, add the powerful CPU, and snap on any I/O and COM modules. Expands up to 2048 I/Os. Available with UniCloud Inside

**UniStream**® Modular

**Features:**

**HMI**
- Size: 7”, 10.4” or 15.6”
- High quality color touchscreen, UniStream 10.4” is also available with Multi-Touch screen
- Multi-language display
- Built-in Alarm Screens
- Media support: Video, Audio and PDF viewer
- Multi-level password protection – easy and fast

**PLC**
- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand locally: up to 2048 I/Os
- Expand remotely: via UniStream Ethernet-based I/O
- Auto-tune PID, up to 64 independent loops
- Recipes & data logging via data tables & sampling
- MicroSD card - log, backup, clone & more
- Function Blocks & Structs

**Communication**

**Built-in ports**
- 1 CANbus
- 2 Ethernet TCP/IP
- 1 RS485
- 2 USB host
- 1 Mini USB for programming

**Add-on ports:**
- Up to 8 RS232 (Using UAC-02RS2)
- Up to 4 RS232 + 4 RS485 (Using UAC-02RSC)

**Fieldbus**
- EtherNet/IP
- MODBUS: Serial & TCP/IP
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

**Advanced Communications**
- OPC UA
- MDTT Client
- SNMP
- SQL Client
- REST API
- FTP server & client
- Web Server
- E-mail & SMS
- Remote access via VNC
- VNC Client
- 4G Routers

---

![UniStream 7"

Viewing Area
Width x Height (mm)
344.23 x 193.53

Cut Out
Width x Height (mm)
196.0 x 134.0

Resolution
800 x 600 (SVGA)

---

**Available with Multi-Touch**

![UniStream 10.4"

Viewing Area
Width x Height (mm)
394.23 x 193.53

Cut Out
Width x Height (mm)
281.0 x 214.0

Resolution
800 x 600 (SVGA)

---

![UniStream 15.6"

Viewing Area
Width x Height (mm)
394.23 x 193.53

Cut Out
Width x Height (mm)
344.23 x 193.53

Resolution
1366 x 768

---

For a list of relevant models, contact Unitronics

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**UniCOM™ Communication Modules**

<table>
<thead>
<tr>
<th>UniCOM™ Module</th>
<th>USC-P-B10</th>
<th>USC-104-B10*</th>
<th>USC-196-B10</th>
</tr>
</thead>
</table>

---

**UniStream 7**

**UniStream 10.4**

**UniStream 15.6**

---

**Program**

**Application Memory**: 8 MB

**HMI Panel**
- Color Touchscreen: Resistive, Analog, Resistive, Analog / Multi-Touch
- Viewing Area Width x Height (mm)
  - USP-070-B08: 154.08 x 85.92
  - USP-070-B10: 152.4 x 91.44
  - USP-104-B10: 211.2 x 158.4
  - USP-156-B10: 344.23 x 193.53
- Cut Out Width x Height (mm)
  - 196.0 x 134.0
  - 281.0 x 214.0
  - 211.2 x 158.4
- Resolution
  - 800 x 480 (WVGA)
  - 800 x 600 (SVGA)
  - 1366 x 768
- Keys
  - Virtual Keyboard

**Environment**
- Protection: IP66 / NEMA4X when panel-mounted
- Operating Temperature
  - -20°C to 55°C
  - 0°C to 50°C
- Standard
  - UL, CE, UKCA
  - EAC, UL Hazardous Locations, Class I, Division 2
- General
  - Battery: 4 years typical at 25°C, battery back-up for memory and RTC
  - Clock: Real-time clock functions (date and time)
- Power Supply 12/24VDC

---

1 Add-on Modules, I/O and COM: the total number of modules, both I/O and COM that you can snap onboard an HMI panel is limited by the size of the panel.

2 I/O modules are “Slim” & “Wide”. 1 “Wide” I/O module = 1.5 “Slim” or COM module.

3 Battery applies to PLC power supply only, and not to the I/O.

4 For Multi-Touch version use article number: USP-104-M10

---

This is the best PLC I have used ‘till now. I have used Unitronics in rubber, steel, pharma, textile, packaging and food applications.”

Sunit Gupte, System Integration Specialist at Shriram Automation
Unistream® Built-in

Features:

HMI
- Size: 5”, 7”, 10.1”
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens
- Media support: Video*, Audio* and PDF viewer
- Multi-level password protection – easy and fast

PLC
- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand locally: up to 2048 I/Os
- Expand remotely: via Unistream Ethernet-based I/O
- Auto-tune PID, up to 64 independent loops
- Recipes & data logging via data tables & sampling
- MicroSD card - log, backup, clone & more
- Function Blocks & Structs

Communication

Built-in ports
- 1 Ethernet TCP/IP
- 1 USB host
- 1 Mini USB for programming

Add-on ports**
- 1 CANbus
- 1 RS485
- 1 RS232

Fieldbus
- EtherCAT/IP
- MODBUS: Serial & TCP/IP
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

Advanced Communications
- OPC UA
- MQTT Client
- SNMP
- SQL Client*
- REST API
- FTP server & client
- Web Server*
- E-mail & SMS
- Remote access via VNC
- VNC Client
- 4G Routers

Program
- Application Memory 8 MB
- HMI Panel
- Color Touchscreen Resistive, Analog
- Viewing Area Width X Height (mm) 108 X 64.8
- 154.08 X 85.92
- 222.72 X 125.28
- Cut Out Width X Height (mm) 148.2 X 93.2
- 196 X 134
- 266.6 X 177.3
- Resolution Width X Height (mm) 800 X 480 (WVGA)
- 1024 x 600 (WSVGA)
- Keys Virtual Keyboard
- Environment
- Protection IP66 / NEMA4X when panel-mounted²
- Operating Temperature -20°C to 55°C
- Standard CE, UKCA, UL, EAC³
- General
- Battery 4 years typical at 25°C, battery back-up for memory and RTC
- Clock Real-time clock functions (date and time)

Features:

Powerful PLC in a superbly compact hardware profile: PLC+HMI+I/Os built into one single unit. Available in two versions: Built-in and Built-in Pro. Expands up to 2048 I/Os. Available with UniCloud Inside

<table>
<thead>
<tr>
<th>Unistream 5</th>
<th>Unistream 7</th>
<th>Unistream 10.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O Options</td>
<td>According to model (See Unistream Built-in &amp; Unistream PLC I/O Configurations on page 20)</td>
<td>2048</td>
</tr>
<tr>
<td>Built-in I/O</td>
<td>According to model (See Built-in I/O configurations - page 21)³</td>
<td>-</td>
</tr>
<tr>
<td>Local I/O Expansion</td>
<td>Use Local Expansion Adapters, according to model (See Uni-I/O table - page 21)³</td>
<td>-</td>
</tr>
<tr>
<td>Remote I/O via Ethernet</td>
<td>Use Unistream Ethernet-based Remote I/O adapters to add I/Os (See Ethernet-based Remote I/O - page 22)</td>
<td>-</td>
</tr>
<tr>
<td>Add-on COM Modules</td>
<td>Add up to 3 Uni-COM™ Modules²</td>
<td>-</td>
</tr>
</tbody>
</table>

Program

- Application Memory 8 MB

HMI Panel

- Color Touchscreen
- Viewing Area Width X Height (mm) 108 X 64.8
- 154.08 X 85.92
- 222.72 X 125.28
- Cut Out Width X Height (mm) 148.2 X 93.2
- 196 X 134
- 266.6 X 177.3
- Resolution Width X Height (mm) 800 X 480 (WVGA)
- 1024 x 600 (WSVGA)
- Keys Virtual Keyboard

Environment

- Protection IP66 / NEMA4X when panel-mounted²
- Operating Temperature -20°C to 55°C
- Standard CE, UL, UKCA, EAC³

General

- Battery 4 years typical at 25°C, battery back-up for memory and RTC
- Clock Real-time clock functions (date and time)

** Up to 2 serial modules and one CANbus module.
² Up to 3 serial modules and one CANbus module.
³ For a list of relevant models, contact Unitronics.
**UniStream® PLC**

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

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

**Communication**
- **Built-in ports**
  - 2 Ethernet TCP/IP
  - 1 USB host
  - 1 Mini USB for programming
- **Add-on ports**
  - 1 CANbus
  - 1 RS485
  - 1 RS232

**Fieldbus**
- EtherNet/IP
- MODBUS: Serial & TCP/IP
- CANopen, CANbus, CANbus2, UniCAN
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

**Advanced Communications**
- OPC UA
- MOTT Client
- SNMP
- SQL Client
- REST API
- FTP server & client
- Web Server
- E-mail & SMS
- Remote access via VNC
- VNC Client
- 4G Routers

**Features:**
- Powerful, Robust Controller with:
  - Virtual HMI. Expands up to 2,048 I/Os. Build your PLC & HMI applications using the same programming software. Available in 3 models: Classic (B3), Standard B5 and Pro (B10).
  - Available with UniCloud Inside

**UniStream Display Panels**
- **UniStream Display:**
  - Size: 5" (USL-050-B05)
  - Size: 7" (USL-070-B05)
  - Size: 10.1" (USL-101-B05)
  - Size: 15.6" (USL-156-B05)

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<table>
<thead>
<tr>
<th><strong>UniStream PLC</strong></th>
<th><strong>Article Number</strong></th>
<th>According to model (See UniStream Built-in &amp; UniStream PLC I/O Configurations on page 20)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I/O Options</strong></td>
<td><strong>Total supported I/Os</strong></td>
<td>Up to 2,048 I/O points</td>
</tr>
<tr>
<td></td>
<td><strong>Built-in I/O</strong></td>
<td>According to model (See Built-in I/Os table - page 20)</td>
</tr>
<tr>
<td></td>
<td><strong>Onboard I/O modules</strong></td>
<td>Directly connect up to 8 Uni-I/O modules to the PLC, on the DIN rail</td>
</tr>
<tr>
<td></td>
<td><strong>Local I/O Expansion</strong></td>
<td>Use Local Expansion Adapters (see table below), according to model (See Uni-I/O table - page 21)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote I/O via Ethernet</strong></td>
<td>Use UniStream Ethernet-based Remote I/O adapters to add I/Os (See Ethernet-based Remote I/O - page 22)</td>
</tr>
<tr>
<td><strong>Add-on COM modules</strong></td>
<td><strong>Add up to 3 COM modules</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Program**
- Application Memory: 8 MB
- Virtual HMI: the PLC stores and runs both control and HMI user applications
- View and operate the virtual HMI via mobile, PC, and on UniStream Displays
- Environment
  - Protection: IP20, NEMA1
  - Operating Temperature: -20°C to 55°C
  - Standards: UL, CE, UKCE, EAC, UK Hazardous Locations, Class I, Division2

**UniStream Display:**
- Size: 5" (USL-050-B05)
- Size: 7" (USL-070-B05)
- Size: 10.1" (USL-101-B05)
- Size: 15.6" (USL-156-B05)

---

<table>
<thead>
<tr>
<th><strong>Local Expansion Adapters</strong></th>
<th><strong>UniStream PLC</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UAAC-XK125</strong></td>
<td>Short Range Kit, 1.25m</td>
</tr>
<tr>
<td><strong>UAAC-XPF125</strong></td>
<td>Short Range + embedded Power Supply Kit, 1.25m</td>
</tr>
<tr>
<td><strong>UAAC-XK300</strong></td>
<td>Short Range Kit, 3m</td>
</tr>
<tr>
<td><strong>UAAC-XP500</strong></td>
<td>Short Range + embedded Power Supply, 3m</td>
</tr>
<tr>
<td><strong>UAAC-XP1XXX</strong></td>
<td>Long Range + embedded Power Supply, lengths: 6, 12, 15, 20, 30m</td>
</tr>
</tbody>
</table>

**Uni-COM™ Communication Modules**
- **UAAC-CB-01RS2** Uni-COM: 1x RS232 port
- **UAAC-CB-01RS4** Uni-COM: 1x RS485 port
- **UAAC-CB-01CAN** Uni-COM: 1x CANbus port

---

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 but one to B3
4 Pro (B10) only

---

*For a list of relevant models, contact Unitronics*
Note that the PWM outputs are included in the total number of transistor outputs.

* To order as a UniCloud Inside model: replace the letter B with 'C'—e.g., US5-B5-B1 to US5-C5-B1.

---

Expand Locally via Uni-I/O™
**Remote I/O via Ethernet**

*UniStream Modular, Built-in, & UniStream PLC*

- Ethernet based
- Up to 63 I/O modules per adapter
- Slim modules - only 12mm
- 16–54 Analog Resolution
- Operating temperature: -40°C to 70°C

---

### Remote Ethernet I/O Adapter

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB-TCP</td>
<td>UniStream Remote I/O Adapter, 63 Modules</td>
</tr>
<tr>
<td>URB-TCP2</td>
<td>UniStream Remote I/O Adapter, 6 Modules</td>
</tr>
<tr>
<td>URB-EC1</td>
<td>UniStream EtherCAT Remote I/O adapter 16 Modules</td>
</tr>
</tbody>
</table>

---

### Input Modules

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB-0800</td>
<td>8 Digital inputs, universal, 10RTB</td>
</tr>
<tr>
<td>URB-1600-8</td>
<td>16 Digital inputs, universal, 10RTB</td>
</tr>
<tr>
<td>URB-3200-4</td>
<td>32 Digital inputs, universal, 40Pin</td>
</tr>
<tr>
<td>URB-0400B</td>
<td>4 Digital inputs, 120VAC, 10RTB</td>
</tr>
<tr>
<td>URB-0400C</td>
<td>4 Digital inputs, 240VAC, 10RTB</td>
</tr>
<tr>
<td>URB-0200E</td>
<td>2, 24VDC, High Speed / Encoder Inputs, 10RTD</td>
</tr>
<tr>
<td>URB-0200D</td>
<td>2, 24VDC, High Speed / Encoder Inputs, 10RTD</td>
</tr>
<tr>
<td>URA-0400D</td>
<td>4 Analog Current Inputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URA-0800D</td>
<td>8 Analog Current Inputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URA-1600-8</td>
<td>16 Analog Current Inputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URA-0400P</td>
<td>4 Analog Voltage Inputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URA-0800P</td>
<td>8 Analog Voltage Inputs 12bit, 10RTB</td>
</tr>
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<td>URA-1600P-8</td>
<td>16 Analog Voltage Inputs 12bit, 10RTB</td>
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<tr>
<td>URA-0400T</td>
<td>4 Analog Current Inputs 16bit, 10RTB</td>
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<tr>
<td>URA-0800T</td>
<td>8 Analog Current Inputs 16bit, 10RTB</td>
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<td>URA-1600T-8</td>
<td>16 Analog Current Inputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URA-0400U</td>
<td>4 Analog Voltage Inputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URA-0800U</td>
<td>8 Analog Voltage Inputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URA-1600U-8</td>
<td>16 Analog Voltage Inputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URS-04RT</td>
<td>4 RTD / Resistance Input, 10RTB</td>
</tr>
<tr>
<td>URS-08RT-2</td>
<td>8 RTD / Resistance Input, 20Pin</td>
</tr>
<tr>
<td>URS-04TC</td>
<td>4 Thermocouple / mV Input, 10RTB</td>
</tr>
<tr>
<td>URS-08TC-2</td>
<td>8 Thermocouple / mV Input, 20Pin</td>
</tr>
<tr>
<td>URS-02LC-8</td>
<td>2 Load cells / Strain gauge, 10RTB</td>
</tr>
</tbody>
</table>

---

### Output Modules

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB-0044RH</td>
<td>4 Relay Outputs, 10RTB</td>
</tr>
<tr>
<td>URB-0045X</td>
<td>4 Solid State Relay Outputs, 240V, 10RTB</td>
</tr>
<tr>
<td>URB-0046M</td>
<td>4 Solid State Relay Outputs, 110V, 10RTB</td>
</tr>
<tr>
<td>URB-0045N</td>
<td>4 Solid State Relay Outputs, 24, 10RTB</td>
</tr>
<tr>
<td>URP-008BH</td>
<td>8 Digital Outputs (Sink), 24V/5A, 10RTB</td>
</tr>
<tr>
<td>URP-008NH</td>
<td>8 Digital Outputs (Sink), 24V/5A, 10RTB</td>
</tr>
<tr>
<td>URP-008NH-8</td>
<td>16 Digital Outputs (Sink), 24V/5A, 10RTB</td>
</tr>
<tr>
<td>URP-008NH-16</td>
<td>32 Digital Outputs (Sink), 24V/5A, 10RTB</td>
</tr>
<tr>
<td>URP-008CH</td>
<td>8 Digital Outputs (Source), 24V/5A, 10RTB</td>
</tr>
<tr>
<td>URP-008CI</td>
<td>8 Digital Outputs (Source), 24V/2A, 10RTB</td>
</tr>
<tr>
<td>URP-0016CG-8</td>
<td>16 Digital Outputs (Source), 24V/0.3A, 18RTB</td>
</tr>
<tr>
<td>URP-0032CG-4</td>
<td>32 Digital Outputs (Source), 24V/0.3A, 40Pin</td>
</tr>
<tr>
<td>URP-002PU</td>
<td>2 Pulse Outputs, 10RTB</td>
</tr>
<tr>
<td>URP-02PW</td>
<td>2 PWM Outputs, 10RTB</td>
</tr>
<tr>
<td>URP-04PW</td>
<td>4 PWM Outputs, 10RTB</td>
</tr>
<tr>
<td>URP-0044W</td>
<td>4 Analog Current Outputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URP-0008W</td>
<td>8 Analog Current Outputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URP-0044X</td>
<td>4 Analog Voltage Outputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URP-0008X</td>
<td>8 Analog Voltage Outputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URP-0016X-8</td>
<td>16 Analog Voltage Outputs 12bit, 10RTB</td>
</tr>
<tr>
<td>URP-0004Y</td>
<td>4 Analog Current Outputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URP-0008Y</td>
<td>8 Analog Current Outputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URP-0004Z</td>
<td>4 Analog Voltage Outputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URP-0008Z</td>
<td>8 Analog Voltage Outputs 16bit, 10RTB</td>
</tr>
<tr>
<td>URP-0016Z-8</td>
<td>16 Analog Voltage Outputs 16bit, 10RTB</td>
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### Power

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URP-PS24V</td>
<td>Input 24VDC, Output system Power 24VDC/1A</td>
</tr>
<tr>
<td>URP-CO24V</td>
<td>8, 24VDC Potential Distributor</td>
</tr>
<tr>
<td>URP-C24V/24V</td>
<td>8, 24VDC Potential Distributor</td>
</tr>
<tr>
<td>URP-CO24V/42V</td>
<td>4, 24VDC and 4, 24VDC Potential Distributor</td>
</tr>
<tr>
<td>URP-PDST</td>
<td>Universal Field Power Distributor</td>
</tr>
<tr>
<td>URP-SHIELD</td>
<td>External Universal Shield Distributor</td>
</tr>
</tbody>
</table>
VisiLogic™ - Vision™ and Samba™
All-in-One programming software

A single, intuitive environment for all your application needs

Hardware Configuration
Intuitive set up: controller, I/Os, and COM channels

Ladder Programming
Rapidly drag & drop elements and Function Blocks

HMI Application
Create beautiful HMI displays – includes rich image library

Alarms: Built-in Screens
Effectively alert staff via Alarm screens

Languages - String Library
Instantly switch HMI language via screen touch

Data Tables
Create logs, import/export data, implement recipes

Trend Graphs
Display dynamic values in real-time

Web Server
Display and edit application values via browser

Smart Utilities – Remote Access, Efficient Data Management, and more

<table>
<thead>
<tr>
<th>Utility Name</th>
<th>Function</th>
<th>Key Features</th>
<th>Targeted Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Access</td>
<td>View and control a PLC directly from PC</td>
<td>• View an HMI panel; use the PC keyboard + mouse to run the HMI application</td>
<td>• Operators requiring Remote Access</td>
</tr>
<tr>
<td></td>
<td>or local connection</td>
<td>• Operate and Data Table values; view values during runtime, import and export values from Excel/csv files</td>
<td>• System integrators: remote debugging, troubleshooting, fault-finding</td>
</tr>
<tr>
<td>Remote Operator</td>
<td>Simultaneously view and operate the HMI</td>
<td>• Easily place HMI panels side-by-side to monitor distributed systems or applications in several locations</td>
<td>• Control room operators</td>
</tr>
<tr>
<td></td>
<td>panels of multiple PLCs in multiple</td>
<td>• Run the HMI applications via PC keyboard + mouse</td>
<td>• Installation managers</td>
</tr>
<tr>
<td></td>
<td>locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DataXport</td>
<td>Create Data Logs from Data Tables and</td>
<td>• Harvest data from multiple PLCs on demand or according to time/date</td>
<td>• Data analysts</td>
</tr>
<tr>
<td></td>
<td>operand values in PLCs</td>
<td>• Export the data to ± Excel/csv files</td>
<td>• Plant managers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Automatically email files</td>
<td>• Process engineers</td>
</tr>
<tr>
<td>UniDownload Designer</td>
<td>Create compressed VisiLogic / U90Ladder</td>
<td>• Prevent end-users from uploading and opening the application</td>
<td>OEMs / System Integrators can:</td>
</tr>
<tr>
<td></td>
<td>applications (.udc files) for secure</td>
<td>• Include an OS to be installed at download; Set a download channel, restrict end-user actions after installation and more</td>
<td>• Protect source code</td>
</tr>
<tr>
<td></td>
<td>installation in local or remote PLCs</td>
<td></td>
<td>• Enable customers to install an application without using VisiLogic or U90Ladder</td>
</tr>
<tr>
<td>Download Manager &amp; UniDownloader</td>
<td>Security install .udc applications in</td>
<td>• Download Manager: installs the same application in multiple PLCs</td>
<td>OEMs / System Integrators in</td>
</tr>
<tr>
<td></td>
<td>local or remote PLCs</td>
<td>• UniDownloader: installs an application in a single PLC</td>
<td>installations with high-security</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>requirements</td>
</tr>
<tr>
<td>SD Card Suite</td>
<td>Remotely access and manage SD cards and</td>
<td>• Browse a remote PLC’s SD card</td>
<td>• Data analysts</td>
</tr>
<tr>
<td></td>
<td>their data</td>
<td>• Read/write data, including Data Table files</td>
<td>• Plant managers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• View SD card contents - Trends, logs, alarm history, data tables – export to Excel</td>
<td>• Process engineers</td>
</tr>
<tr>
<td>UniVision Licensing</td>
<td>Safeguard your PLC application security</td>
<td>• Embeds unique licenses in the PLC, which enables application to run only on a licensed PLC</td>
<td>• System integrators</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Option to activate or deactivate different sections of your application</td>
<td>• OEMs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Prevents theft of applications</td>
<td></td>
</tr>
<tr>
<td>UniOPC Server</td>
<td>Exchange data between Unitronics PLCs</td>
<td>• Create channel to connect PLCs to SCADA systems, such as plant control rooms</td>
<td>Control room operators</td>
</tr>
<tr>
<td></td>
<td>and OPC-supported software</td>
<td>• Compliant with the OPC foundation standards</td>
<td></td>
</tr>
<tr>
<td>UniDDE</td>
<td>Exchange data with Windows based</td>
<td>Enables data exchange between Unitronics PLCs and software that supports Microsoft’s Dynamic Data Exchange protocols, like Excel</td>
<td>Control rooms operators</td>
</tr>
</tbody>
</table>

Software features vary according to controller model
**Features:**

**HMI**
- Size: 7”, 10.4” and 12.1”
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

**PLC**
- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 1000 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- MicroSD card - log, backup, clone & more
- Function Blocks

**Communication**

**Built-in ports**
- 1 Ethernet TCP/IP
- 1 Mini USB for programming
- 1 CANbus
- 1 Isolated RS485/RS232
- 2 Isolated RS485/RS232

**Add-on ports**
- 1 Serial/Ethernet
- 1 CANbus

**Protocols**
- MODBUS TCP
- SNMP V1
- CANopen, J1939, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

**Advanced Communications**
- Web server
- E-mail & SMS
- Remote access utilities
- 3G Modem support

---

**Advanced PLC with a built-in 7”/10.4”/12.1” high-resolution color touch screen. Snap in I/Os to expand up to 1000 I/Os.**

---

**Snap-in I/O**
Plugs directly into the back of your PLC

---

**V700**
- Article Number: V700-T2BJ
- Total supported I/Os: 1000
- Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 33).
- Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 32).
- Use Local Expansion Adapters to add up to 8 modules
- Use EX-RC1 adapters to further extend the number of I/Os

**V1040**
- Article Number: V1040-T20B
- Total supported I/Os: 1000
- Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 33).
- Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 32).
- Use Local Expansion Adapters to add up to 8 modules
- Use EX-RC1 adapters to further extend the number of I/Os

**V1210**
- Article Number: V1210-T20BJ
- Total supported I/Os: 1000
- Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules- page 33).
- Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules- page 32).
- Use Local Expansion Adapters to add up to 8 modules
- Use EX-RC1 adapters to further extend the number of I/Os

---

**Program**
- Application Memory
- Application Logic: 2MB + images: 32MB + Fonts: 1MB
- Scan Time: 9μsec per 1K of typical application
- Memory Operands: 8192 coils, 4096 registers, 512 long integers (32 bit), 256 double words (32 bit unsigned), 64 memory floats, 384 timers, 32 counters.
- Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words

**HMI Panel**
- Color Touchscreen: Resistive, Analog
- Viewing Area: Width X Height (mm): 154.08 x 85.92 / 210 x 157.5 / 246.8 x 185.3
- Resolution: 800 x 480 (WVGA) / 800 x 600 (SVGA)
- Keys: Virtual Keyboard
- Environment Protection: IP65 / NEMA4X when panel mounted
- Operating Temperature: 0 to 50ºC
- Standards: UKCA, UL, CE, EAC, UL Hazardous Locations, Class I, Division2

**General**
- Battery: 7 years typical at 25°C, battery back-up for all memory sections and RTC
- Clock: Real-time clock functions (date and time)
- Power Supply: 12/24VDC

---

“I’ve not yet encountered a job that a Unitronics PLC was unable to cover.”

Timothy Moulder,
Engineer at Black & Decker
Vision 570™ / 560™

Features:

HMI
- Size: 5.7"
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

PLC
- I/O options include digital, analog, high speed, temperature, and weight measurement
- Expand up to 1000 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- MicroSD/SD card – log, backup, clone & more
- Function Blocks

Communication

Built-in ports
- 1 Mini USB for programming in V570
- 1 CANbus
- 2 Isolated RS485/RS232

Add-on ports
- 1 Serial/Ethernet

Protocols
- MODBUS TCP
- SNMP V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

Advanced Communications
- Web server
- E-mail & SMS
- 3G Modern support
- Remote access utilities

Advanced PLC with a built-in 5.7” touch screen. Snap in I/Os to expand up to 1000 I/Os.

“For a first time user, I had a great experience. I look forward to incorporating this brand of product on future jobs.”

Jeremy Charles Keene,
Controls Manager at General Broach Company

<table>
<thead>
<tr>
<th>Vision 560</th>
<th>Vision 570</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article Number</td>
<td>V560-T25B</td>
</tr>
<tr>
<td>I/O Options</td>
<td></td>
</tr>
<tr>
<td>Total supported I/Os</td>
<td>1000</td>
</tr>
<tr>
<td>I/O Expansion</td>
<td>Snap-in I/O Modules plug directly into the back of the Vision unit (See Snap-in I/O Modules - page 33). Local or Remote I/Os may be added via expansion port or via CANbus (See I/O Expansion Modules - page 32).</td>
</tr>
<tr>
<td>Local I/O Expansion</td>
<td>Use Local Expansion Adapters to add up to 8 modules</td>
</tr>
<tr>
<td>Remote I/O Expansion</td>
<td>Use EX-RC1 adapters to further extend the number of I/Os</td>
</tr>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Application Memory</td>
<td>Application Logic: 2MB + Images: 16MB + Fonts: 1MB</td>
</tr>
<tr>
<td>Scan Time</td>
<td>8µsec per 1K of typical application</td>
</tr>
<tr>
<td>Memory Operands</td>
<td>8192 coils, 4096 registers, 512 long integers (32-bit), 256 double words (32-bit unsigned), 64 floats, 384 timers (32-bit), 32 counters. Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words</td>
</tr>
<tr>
<td>HMI Panel</td>
<td></td>
</tr>
<tr>
<td>Color Touchscreen</td>
<td>Resistive, Analog</td>
</tr>
<tr>
<td>Viewing Area</td>
<td>Width x Height (mm) 115.2 x 86.4</td>
</tr>
<tr>
<td>Cut Out</td>
<td>Width x Height (mm) 209 x 126.0</td>
</tr>
<tr>
<td>Resolution</td>
<td>320 x 240 (QVGA)</td>
</tr>
<tr>
<td>Keys</td>
<td>24 programmable keys – labeling options – function keys and customized Virtual Keyboard</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>IP66 / NEMA4X when panel mounted</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 50ºC</td>
</tr>
<tr>
<td>Standards</td>
<td>UKCA, UL, CE, EAC1, UL Hazardous Locations, Class I, Division2</td>
</tr>
<tr>
<td>General</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>7 years typical at 25ºC, battery back-up for all memory sections and RTC</td>
</tr>
<tr>
<td>Clock</td>
<td>Real-time clock functions (date and time)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>12/24VDC</td>
</tr>
</tbody>
</table>
**Vision 350™ / 430™ / 130™**

**Features:**

**HMI**
- Size: 3.5", 4.3" and 2.4"
- Vision 350, 450: High quality color touchscreen
- Vision 130: Monochrome
- Multi-language display
- Built-in Alarm Screens

**PLC**
- I/O options include digital, analog, high speed, temperature, and weight measurement
- V350 and V450: Expand up to 512 I/Os. V130: Expand up to 256 I/Os
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via data tables
- Micro SD card - log, backup, clone & more
- Function Blocks

**Communication**

**Built-in ports**
- 1 Mini USB for programming¹
- 1 RS485/RS232

**Add-on ports**
- 1 Serial/Ethernet/ProfiBus
- 1 CANbus

**Protocols**
- MODBUS TCP
- SNMP-V1
- CANopen, CANlayer2, UniCAN
- BACnet, KNX and M-Bus via gateway
- FB Protocol: for any 3rd party protocol

**Advanced Communications**
- Web server
- E-mail & SMS
- 4G Modem support
- Remote access utilities

¹ Applies only to V350 and V130

---

**V350**

Advanced PLC controllers with built-in HMI panel. Includes built-in, expandable I/O configuration.

**V430**

**V130**

---

**Extended temperature unit available:**
- Operational temperature range between -30°C to 60°C, available for panel Article: V350-JS-TR34 and CANbus Article: V130-J-TRA22
- Extended temperature available for Ethernet (Article: V100-S-ET2) and CANbus (Article: V100-S-CAN).

---

**Vision 350™ / 430™ / 130™ models**

<table>
<thead>
<tr>
<th>Model</th>
<th>V350</th>
<th>V430</th>
<th>V130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td>30</td>
<td>32</td>
<td>512</td>
</tr>
<tr>
<td>Outputs</td>
<td>32</td>
<td>32</td>
<td>256</td>
</tr>
</tbody>
</table>

---

**Program**

**Application Memory**
- Application Logic: 1MB + Images: ROM + Flash: 512K
- Application Logic: 1MB + Images: 13MB + Flash: 512K
- Application Logic: 4MB + Images: 13MB + Flash: 13MB

**Ease of Use**
- 15µsec per 1k of typical application
- 20µsec per 1k of typical application

**Memory Operands**
- 8192 coils, 4096 registers, 512 long integers (32 bit assigned), 64 memory floats, 384 timers, 32 counters.
- 4096 coils, 2048 registers, 256 long integers (32 bit assigned), 24 floats, 150 timers (32 bit), 24 counters.

**Extended temperature unit available:**
- 1024 I/Os, 512 X-integers, 256 X-long integers, 44 X-double words

---

**HMI Panel**

- Touchscreen: Resistive, Analog
- Viewing Area Width x Height (mm): 72 x 54.5
- Cut Out Width x Height (mm): 86 x 52
- Resolution: 320 x 240 (QVGA) 480 x 272 128 x 64

---

**Environment**

- Temperature: 0°C to 50°C for V350-JS, V430-JS, 130-JS; -30°C to 60°C for additional models. For a list of relevant models, contact Unitronics.
- Battery: 7 years typical at 25°C, battery back-up for all memory sections and RTC
- Protection: NEMA4X, IP66 (when panel mounted)
- Environment: UL, CE, EC, UL Hazardous Locations, Class 1, Division 2
- General:
  - Clock: Real-time clock functions (date and time)
  - Battery:
    - 7 years typical at 25°C, battery back-up for all memory sections and RTC

---

**Additional non-retainable operands:**
- 1024 X-bits, 512 X-integers, 256 X-long integers, 64 X-double words
- 64 memory floats, 384 timers, 32 counters.

---

**Memory Operands (continued):**

- Additional non-retainable operands: 1024 X-bits, 512 X-integers, 256 X-long integers, 44 X-double words

---

**Images:**
- 128KB • Fonts: 128KB
- Application Logic: 488KB • Application Logic: 13MB • Application Logic: 13MB

---

**Application Memory**

- Application Logic: 1MB + Images: ROM + Flash: 512K
- Application Logic: 1MB + Images: 13MB + Flash: 512K
- Application Logic: 4MB + Images: 13MB + Flash: 13MB
## I/O Expansion Modules & Accessories - Vision Series

Expand your system with local or remote I/O expansion modules.

### Inputs

<table>
<thead>
<tr>
<th>Expansion Modules Article</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Weight Measurement</th>
<th>Transistor</th>
<th>PNM/VSID</th>
<th>Relay</th>
<th>Analog</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-DA-T08</td>
<td>—</td>
<td>—</td>
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<td>—</td>
<td>—</td>
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<td>—</td>
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<td>ID-DA-M04</td>
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<td>ID-DA-P08</td>
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<td>ID-DA-R16</td>
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<td>ID-DA-A04</td>
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<td>ID-DA-A16</td>
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<tr>
<td>ID-DA-A26</td>
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<td>ID-DA-A36</td>
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<td>ID-DA-A48</td>
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</table>

### Outputs

<table>
<thead>
<tr>
<th>Expansion Modules Article</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Weight Measurement</th>
<th>Transistor</th>
<th>PNM/VSID</th>
<th>Relay</th>
<th>Analog</th>
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<tbody>
<tr>
<td>IO-PP03</td>
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<td>IO-PP4K</td>
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<td>IO-AD0X</td>
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<tr>
<td>IO-LC1</td>
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<tr>
<td>IO-LC3</td>
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<td>IO-ATC8</td>
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<td>IO-B8</td>
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</table>

### DIN-rail Power Supplies

DIN-rail Power Supplies

<table>
<thead>
<tr>
<th>Model</th>
<th>Ethernet</th>
<th>Res232/RES485</th>
<th>Isolated Res232/RES485</th>
<th>CANbus</th>
<th>Prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>UAP-24V24W</td>
<td></td>
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<td>UAP-24V60W</td>
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<td>UAP-24V16W</td>
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</tbody>
</table>

**Vision & Samba COM Modules**

Enhance Vision’s communication capabilities

<table>
<thead>
<tr>
<th>Model</th>
<th>Ethernet</th>
<th>Res232/RES485</th>
<th>Isolated Res232/RES485</th>
<th>CANbus</th>
<th>Prefix</th>
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<tbody>
<tr>
<td>V101-17-ET2</td>
<td></td>
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<tr>
<td>V101-17-ET3</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>V101-17-ET4</td>
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</tr>
<tr>
<td>V101-17-ET5</td>
<td></td>
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</tr>
<tr>
<td>V101-17-ET6</td>
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</tr>
<tr>
<td>V101-17-ET7</td>
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<tr>
<td>V101-17-ET8</td>
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<tr>
<td>V101-17-ET9</td>
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<tr>
<td>V101-17-ET10</td>
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</tr>
<tr>
<td>V101-17-PB1</td>
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<td>V101-17-PB2</td>
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</tbody>
</table>

**Snap-in I/O Modules**

Compatible with Vision models: V560, V570, V700, V1040 and V1210.

<table>
<thead>
<tr>
<th>Snap-in I/O Module Article</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Transistor</th>
<th>PNM/VSID</th>
<th>Relay</th>
<th>Analog</th>
</tr>
</thead>
<tbody>
<tr>
<td>V200-18-E18</td>
<td>16</td>
<td>2</td>
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<td>V200-18-E28</td>
<td>16</td>
<td>2</td>
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<tr>
<td>V200-18-E38B</td>
<td>16</td>
<td>2</td>
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<td>V200-18-E48B</td>
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<tr>
<td>V200-18-E58</td>
<td>16</td>
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<td>V200-18-E68B</td>
<td>20</td>
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</table>

**I/O Expansion Module Adapters**

<table>
<thead>
<tr>
<th>Article</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-AZP</td>
<td>Local I/O module adapter, Galvanic isolation. Up to 8 modules may be connected to a single PLC. Supports both 12/24V DC.</td>
</tr>
<tr>
<td>EX-RC1</td>
<td>Remote I/O module adapter, via CANbus. Multiple adapters may be connected to a single PLC, with up to 8 modules to each adapter. Supports both 12/24V DC.</td>
</tr>
</tbody>
</table>

---

* Number of supported I/Os & I/O modules varies according to model.
* The CANbus interface is an option for Vision models and connects to the Vision controller via CANbus and programmed in VisiLogic.
* The CANbus interface can be added as a regular I/O port.
* High-speed inputs are configurable as either high-speed counter (HSC) or shaft encoder.
* The HSC is fixed as an open loop. Only one HSC can be connected per PLC, at a single expansion module. Expansion adapter not required.
* Supported by Samba Vision’s Expansion module series.
* The total number of digital inputs listed includes high-speed inputs. Example: the EX-DA-D08-16 includes a total of 16 digital inputs. You can configure it as an HSC and 16 as a Counter, which reduces the available number of digital inputs to 14. The total number of digital inputs listed includes high-speed outputs. Example: the EX-DA-D08 includes a total of 16 digital outputs. You can configure 15 as High-speed outputs, reducing the number of available digital outputs to 1. Functions as a local adapter. Can support up to 7 I/O modules.
* 16-bit or 32-bit, depending on the PLC.
* Also available as 100kHz — contact us for part number.
* *One HSC may be configured as a shaft encoder.*
Full-function PLC with built-in, full-color touch screen and built-in I/O configuration. Great look, incredible price.

**PLC**
- I/O options include digital, analog, and high speed
- Auto-tune PID, up to 2 independent loops
- Recipe programs and data logging via data tables
- Function Blocks

**Protocols**
- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol for any 3rd party protocol

**Advanced Communications**
- E-mail & SMS
- 3G Modem support
- Remote access utilities

**Communication**

**Built-in ports**
- 1 Mini USB for programming for 4.3” & 7” models, 1 RS232 for 3.5” model

**Add-on ports**
- 1 Serial/Ethernet
- 1 CANbus

**Protocols**
- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol for any 3rd party protocol

**Features:**

**HMI**
- Size: 3.5”, 4.3”, 7”
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

**Full-function PLC with built-in, full-color touch screen and built-in I/O configuration. Great look, incredible price.**

**SAMBA™ models - Built-in I/O configurations**

### Features:

**HMI**
- Size: 3.5”, 4.3”, 7”
- High quality color touchscreen
- Multi-language display
- Built-in Alarm Screens

**PLC**
- I/O options include digital, analog, and high speed
- Auto-tune PID, up to 2 independent loops
- Recipe programs and data logging via data tables
- Function Blocks

**Communication**

**Built-in ports**
- 1 Mini USB for programming for 4.3” & 7” models, 1 RS232 for 3.5” model

**Add-on ports**
- 1 Serial/Ethernet
- 1 CANbus

**Protocols**
- MODBUS TCP
- SNMP V1
- CANopen, UniCAN, CANlayer2
- BACnet, KNX and M-Bus via gateway
- FB Protocol for any 3rd party protocol

**Advanced Communications**
- E-mail & SMS
- 3G Modem support
- Remote access utilities
Features:

HMI
- Up to 60 user-designed screens
- Multi language

PLC
- I/O options include digital, analog, temperature and high speed
- Auto-tune PID, up to 4 independent loops (according to model)

Communication

Jazz Add-on ports and Accessories

<table>
<thead>
<tr>
<th>COM Port</th>
<th>Ethernet Communication Port</th>
<th>Program Cloner module</th>
<th>Keypad Slide kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232/RS485 (Isolated)</td>
<td>article No.: JZ20-ET1</td>
<td>article No.: MJ20-MEM1</td>
<td>article No.: MJ20-JZ-SL1</td>
</tr>
</tbody>
</table>

Protocols
- PC access via MODBUS or OPC server
- Supports MODBUS protocol (according to model)

Advanced Communications
- SMS via GSM
- 3G Modern support
- Remote access utilities

Accessories
- Program Cloner module - Copy applications from PLC to PLC
- Keypad Slide kit - Customize the Jazz keypad to your application

DIN-rail Power Supplies

<table>
<thead>
<tr>
<th>DIN-rail Power Supplies</th>
<th>24W</th>
<th>24V</th>
<th>1A</th>
<th>60W 24V</th>
<th>2.5A</th>
<th>96W 24V</th>
<th>4A</th>
</tr>
</thead>
</table>

Jazz® models - Built-in I/O configurations

<table>
<thead>
<tr>
<th>Article</th>
<th>Summary</th>
<th>Inputs</th>
<th>Outputs</th>
<th>Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZ20-JR10</td>
<td>6 Digital Inputs</td>
<td>6 Relay Outputs</td>
<td>2 Analog Inputs</td>
<td>—</td>
</tr>
<tr>
<td>JZ20-JR15</td>
<td>6 Digital Inputs</td>
<td>6 Relay Outputs</td>
<td>2 Analog Inputs</td>
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<tr>
<td>JZ20-JR20</td>
<td>6 Digital Inputs</td>
<td>6 Analog Inputs</td>
<td>6 Relay Outputs</td>
<td>—</td>
</tr>
<tr>
<td>JZ20-JR25</td>
<td>10 Digital Inputs</td>
<td>10 Analog Inputs</td>
<td>10 Relay Outputs</td>
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</tr>
<tr>
<td>JZ20-JT10</td>
<td>6 Digital Inputs</td>
<td>4 Analog Outputs</td>
<td>4 Relay Outputs</td>
<td>—</td>
</tr>
<tr>
<td>JZ20-JT15</td>
<td>6 Digital Inputs</td>
<td>6 Analog Outputs</td>
<td>6 Relay Outputs</td>
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</tr>
<tr>
<td>JZ20-JT20</td>
<td>6 Digital Inputs</td>
<td>6 Analog Outputs</td>
<td>6 Relay Outputs</td>
<td>—</td>
</tr>
<tr>
<td>JZ20-JT25</td>
<td>10 Digital Inputs</td>
<td>10 Analog Outputs</td>
<td>10 Relay Outputs</td>
<td>—</td>
</tr>
</tbody>
</table>

Notes:
- In some models, certain inputs are available, and can function as either digital or analog. All high-speed inputs are at the user's discretion.
- To order a classic Jazz model, contact your local distributor.
- Operating Voltage: 24VDC

Jazz® is an All-in-One unit as affordable as a “smart relay”. Full-function PLC combined with a textual HMI and keypad, with up to 40 built-in I/Os.
UniCloud Gateway for any Device: Unitronics 4G Routers

Connect any device and any application - old or new - to UniCloud via UniCloud routers

- Dual functionality: as a cellular 4G LTE router and as a UniCloud gateway for Vision, Samba, and Jazz controllers
- MODBUS gateway to UniCloud: Connect any device that supports MODBUS to UniCloud
- Embedded Firewall for Robust Security, Remote Monitoring, & Control
- Geo-Location via GNSS (GPS)
- Send SMS via Ethernet
- On-board Digital & Analog I/Os

Connections: Ethernet ports, Micro-SD, RS232, RS485, USB interface

**Router Models**

**B5 Series: UCR-ST-B5**
4G LTE & WiFi cellular router with embedded Firewall, 2 Ethernet ports and Digital I/O.

**B8 Series: UCR-ST-B8**
Dual-SIM 4G LTE & WiFi cellular router with embedded Firewall, 4 Ethernet ports, Digital & Analog I/Os, RS232, RS485, GNSS (GPS), microSD & USB interface.

**Hardware**

<table>
<thead>
<tr>
<th></th>
<th>B5 Series</th>
<th>B8 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobile</strong></td>
<td>4G (LTE) Cat 4 DL up to 150 Mbps, UL up to 50 Mbps; DC-HSPA+; UMTS, TD-SCDMA, EDGE, GPRS</td>
<td>4G (LTE-FDD): B4, B13</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Atheros Hornet, MIPS 24 Khz, 400 MHz</td>
<td>Atheros Hornet, MIPS 24 Khz, 400 MHz</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>16 MB Flash, 64 MB DDR2 RAM</td>
<td>128 MB DDR2 RAM</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>2x 10/100 Ethernet ports: 1 x WAN (configurable as LAN), 1 x LAN</td>
<td>4x 10/100 Ethernet ports: 1 x WAN (configurable as LAN), 3 x LAN ports</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>9 - 30 VDC, 4 pin DC connector</td>
<td>9 - 30 VDC, 4 pin DC connector</td>
</tr>
<tr>
<td><strong>PoE (passive)</strong></td>
<td>Passive PoE over spare pairs ( available from HW revision 0007 and batch number 0010 ) Possibility to power up through LAN port, not compatible with IEEE 802.3 at and 802.3 at</td>
<td>Passive PoE over spare pairs ( available from HW revision 0007 and batch number 0010 )</td>
</tr>
<tr>
<td><strong>Inputs/Outputs</strong></td>
<td>1x Digital Input, 1x Digital Open Collector Output on power connector</td>
<td>2x connection type status, 5x connection strength, 2x LAN status, 1x Power</td>
</tr>
<tr>
<td><strong>Connectors</strong></td>
<td>1x 4-pin DC, 2x Ethernet, 2x Mobile SIMA, 1x WiFi RP SMA</td>
<td>1x 4-pin DC, 4x Ethernet, 2x Mobile SIMA, 2x WiFi RP SIMA, 1x GPS SIMA, 1x RS232, 1x 6-pin</td>
</tr>
<tr>
<td><strong>Memory Cards</strong></td>
<td>X</td>
<td>microSD, Hinge Type slot</td>
</tr>
<tr>
<td><strong>SIM</strong></td>
<td>1x external SIM holder</td>
<td>2x external SIM holders</td>
</tr>
<tr>
<td><strong>Status LEDs</strong></td>
<td>2x connection type status, 5x connection strength, 2x LAN status, 1x Power</td>
<td>2x color connection status, 5x connection strength, 4x LAN status, 1x Power</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40 C to 75 C</td>
<td>-40 C to 75 C</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>Aluminum housing, plastic panels</td>
<td>Aluminum housing, plastic panels</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>83mm x 74mm x 25mm</td>
<td>100mm x 110mm x 50mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>125g</td>
<td>287g</td>
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**Network Coverage**

<table>
<thead>
<tr>
<th>Article Number</th>
<th>Region Coverage*</th>
<th>Frequency Bands</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCR-ST-B5-AT</td>
<td>North America (AT&amp;T)</td>
<td>• 4G (LTE-FDD): B2, B4, B12</td>
</tr>
<tr>
<td>UCR-ST-B5-EU</td>
<td>Europe, the Middle East, Africa, Korea, Thailand, Malaysia</td>
<td>• 4G (LTE-FDD): B1, B3, B7, B8, B20, B28A</td>
</tr>
<tr>
<td>UCR-ST-B5-SA</td>
<td>South America, Australia, New Zealand, Taiwan</td>
<td>• 4G (LTE-FDD): B1, B2, B5, B8, B7, B8, B20</td>
</tr>
<tr>
<td>UCR-ST-B5-VE</td>
<td>North America (Verizon)</td>
<td>• 4G (LTE-FDD): B4, B13</td>
</tr>
<tr>
<td>UCR-ST-B8-AT</td>
<td>North America (AT&amp;T)</td>
<td>• 4G (LTE-FDD): B2, B4, B12</td>
</tr>
<tr>
<td>UCR-ST-B8-EU</td>
<td>Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia</td>
<td>• 4G (LTE-FDD): B1, B2, B5, B8, B7, B8, B20</td>
</tr>
<tr>
<td>UCR-ST-B8-SA</td>
<td>South America, Australia, New Zealand, Taiwan</td>
<td>• 4G (LTE-FDD): B3, B4, B8, B13</td>
</tr>
<tr>
<td>UCR-ST-B8-VE</td>
<td>North America (Verizon)</td>
<td>• 4G (LTE-FDD): B4, B13</td>
</tr>
</tbody>
</table>

*Please check with your mobile network provider

<table>
<thead>
<tr>
<th><strong>Article Number</strong></th>
<th><strong>Region Coverage</strong></th>
<th><strong>Frequency Bands</strong></th>
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</thead>
<tbody>
<tr>
<td>UCR-ST-B5-AT</td>
<td>North America (AT&amp;T)</td>
<td>• 4G (LTE-FDD): B2, B4, B12</td>
</tr>
<tr>
<td>UCR-ST-B5-EU</td>
<td>Europe, the Middle East, Africa, Korea, Thailand, Malaysia</td>
<td>• 4G (LTE-FDD): B1, B3, B7, B8, B20, B28A</td>
</tr>
<tr>
<td>UCR-ST-B5-SA</td>
<td>South America, Australia, New Zealand, Taiwan</td>
<td>• 4G (LTE-FDD): B1, B2, B5, B8, B7, B8, B20</td>
</tr>
<tr>
<td>UCR-ST-B5-VE</td>
<td>North America (Verizon)</td>
<td>• 4G (LTE-FDD): B4, B13</td>
</tr>
<tr>
<td>UCR-ST-B8-AT</td>
<td>North America (AT&amp;T)</td>
<td>• 4G (LTE-FDD): B2, B4, B12</td>
</tr>
<tr>
<td>UCR-ST-B8-EU</td>
<td>Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia</td>
<td>• 4G (LTE-FDD): B1, B2, B5, B8, B7, B8, B20</td>
</tr>
<tr>
<td>UCR-ST-B8-SA</td>
<td>South America, Australia, New Zealand, Taiwan</td>
<td>• 4G (LTE-FDD): B3, B4, B8, B13</td>
</tr>
<tr>
<td>UCR-ST-B8-VE</td>
<td>North America (Verizon)</td>
<td>• 4G (LTE-FDD): B4, B13</td>
</tr>
</tbody>
</table>

**Software Features**

<table>
<thead>
<tr>
<th>B5 Series</th>
<th>B8 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic DNS</td>
<td>✔️</td>
</tr>
<tr>
<td>Multiple VPN Protocols</td>
<td>✔️</td>
</tr>
<tr>
<td>Wireless Access Point and Wireless Client</td>
<td>✔️</td>
</tr>
<tr>
<td>GPS Geo-fencing</td>
<td>✔️</td>
</tr>
<tr>
<td>Firewall</td>
<td>✔️</td>
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<tr>
<td>I/O Control</td>
<td>✔️</td>
</tr>
<tr>
<td>MQTT Broker</td>
<td>✔️</td>
</tr>
<tr>
<td>Modbus TCP and Modbus RTU</td>
<td>✔️</td>
</tr>
<tr>
<td>NTP Server</td>
<td>✔️</td>
</tr>
</tbody>
</table>

**Accessories**

- UCR-OP-B5-DIN
- UCR B8/B5 DIN RAIL KIT
- UCR-ACC-02
- B8 LTE ANTENNA (SMC, 3m CBL)
- UCR-ACC-03
- 4G LTE ANTENNA (SMA, 1.5m CBL)
- UCR-ACC-04
- GNSS ANTENNA (SMC, 3m CBL)
- UCR-ACC-07
- B8 LTE ANTENNA (SWIVEL, SMA)
- UCR-ACC-08
- B8 LTE ANTENNA (SWIVEL, SMA)
Motion Control with Unitronics Easy to set up. Painless to program.

Servo Drive and Motors & VFD
- One Software: Why struggle with multiple software tools to build your application? Unitronics provides one integrated software environment to control it all: PLC, HMI, Servo, VFD, and I/O
- Automatic communication setup: absolutely seamless
- Minimal room for error: UniLogic software analyzes mechanical properties and recommends safe values for your Servo and VFD Motion applications
- Diagnostics: View servo and VFD run-time performance via UniLogic’s built-in powerful, high-speed scope
- Single Parameter Tuning: For both Servo and VFD
- No coding needed! Use Ready-Made Motion code to test your completed system
- Embedded Diagnostic tools: no PC needed. Tap a panel - even mobile - to:
  - Set motion parameters
  - Monitor Axis behavior and I/Os
  - Execute movements, such as Point-to-Point, Jog, and Homing
- Ready-Made Motion code: simply open and edit as needed

No motion programming knowledge needed!

UniLogic® Software: Eliminates the complicated operations associated with Motion Control.

Powerful, award-winning software that enables you to do it all in one project:
- Configure all hardware: PLC, HMI, VFDs, Servo drives, motors, actuators
- Build PLC, HMI, and Motion applications
- Set up and implement all communications—including IIoT Cloud
- Remotely perform any task that doesn’t require a screwdriver

Motion Control programming:
drag & drop function blocks

Add Axes, drag & drop actuators;
UniLogic automatically converts units

Test & view performance via built-in powerful, high-speed scope

UniLogic automatically defines the correct configuration & sets up communications

Analyzes mechanical properties, and recommends safe values

Ready-Made Motion Code - Get moving immediately – No programming needed!
Download Ready-Made Motion code and tap a panel – even mobile – to:
- Set motion parameters
- Monitor Axis behavior and I/Os
- Execute movements, such as Point-to-Point, Jog, and Homing

For more information on our full lines of Servos & VFDs, refer to our Motion Control catalogue
Fast. Easy. Cost-effective

Unitronics’ One Integrated Solution for Control & Automation offers the best of two worlds: great flexibility in component selection, together with the simplicity of an all-inclusive, time-saving, 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 plan floor.”

Jeferson Franco, an Engineer at AI7 Automation Ltda.

- Complete range of controllers
- Full line of VFDs
- AC Servo Drive & Motor
- All-in-One programming software
- IIoT cloud platform: UniCloud