ONE INTEGRATED SOLUTION for Control & Automation

- Full Range of PLCs
- Motion Control
- Powerful Software
- Cloud Platform

Controllers & Accessories Catalog
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

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 catalog)
- Automatic, transparent setup
- Built-in Diagnostics
- Communications: effortless, seamless with Unitronics products
- VFDs: high performance, cost-effective
- Servos: Serve 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.

SECURED
UniCloud’s architecture is designed with multilayered 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 slow downs and shutdowns.

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

Unicorn is that simple: Do-It-Yourself
- Monitor & improve processes
- Reduce operational and maintenance costs
- Predict failures and minimize unplanned slowdowns & shutdowns
- Integrate—easily—with any device over MODBUS protocol

Enjoy a 3-month free trial
Log into the UniCloud website - try it yourself:
www.unitronics.cloud
Powerful Award-winning Programmable Logic Controllers
For high-end automation projects—available in 3 series: UniStream Modular, UniStream Built in, and UniStream PLC.
All UniStream models are available as ‘UniStream Cloud’ controllers, PLC with built-in cloud services.

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.

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.

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

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**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
IIoT 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.

Speed Ladder + “C” Power
Build your Ladder: drag/drop/snap elements into place, error-free. Write C code with the built-in editor. Create UDFBs for repetitive tasks.

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: databus via any Ethernet, CANbus/serial 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, OPC-UA, SQL Connector, FTP, SNMP, REST

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.

Industrial Fieldbus Communications
Communicate via Configuration. Incredibly fast & easy to implement: data communications are independent of Ladder. Plug & Play EtherCAT, MODBUS TCP/RTU, CANopen, BACnet Server, Hart, and more.

Routers and Modems
Use IT technologies to enable your Controller to bridge the gap between OT and IT—from the production floor up to the MES.

Required libraries: EtherCAT, MODBUS TCP, OPC-UA, SQL, SPI, etc.
**UniStream® Modular**

**Features:**

**HMI**
- 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:**
- EtherCAT
- 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
- S7MP
- SQL Client
- REST API
- FTP server & client
- Web Server
- E-mail & SMS
- Remote access via VNC
- VNC Client
- 4G Routers

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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**

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**UniStream® 7”**

**UniStream® 10.4”**

**UniStream® 15.6”**

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**Part Number**

<table>
<thead>
<tr>
<th>UniStream 7</th>
<th>UniStream 10.4</th>
<th>UniStream 15.6</th>
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<tr>
<td>CPU USC-P-B10</td>
<td>USC-P-B10</td>
<td>USC-P-B10</td>
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<tr>
<td>HMI panel*</td>
<td>(See I/O Expansion Modules - page 21)</td>
<td>(See I/O Expansion Modules - page 22)</td>
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</table>

<table>
<thead>
<tr>
<th>I/O Options</th>
<th>UniStream 7</th>
<th>UniStream 10.4</th>
<th>UniStream 15.6</th>
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<tr>
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<td>2048</td>
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<td>Board I/O modules</td>
<td>Fit up to 3 slim or 2 wide Uni-I/O™ Modules1</td>
<td>Fit up to 5 slim or 3 wide Uni-I/O™ Modules1</td>
<td>Fit up to 8 slim or 4 wide Uni-I/O™ Modules1</td>
</tr>
<tr>
<td>Local I/O Expansion</td>
<td>Use Local Expansion Adapters to add up to 80 slim or 50 wide Uni-I/O™ Modules1</td>
<td>Use Local Expansion Adapters to add up to 80 slim or 50 wide Uni-I/O™ Modules1</td>
<td>Use Local Expansion Adapters to add up to 80 slim or 50 wide Uni-I/O™ Modules1</td>
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<tr>
<td>Remote I/O via Ethernet</td>
<td>Use UniStream Ethernet-based Remote I/O adapters to add I/Os (See I/O Expansion Modules - page 22)</td>
<td>Use UniStream Ethernet-based Remote I/O adapters to add I/Os (See I/O Expansion Modules - page 22)</td>
<td>Use UniStream Ethernet-based Remote I/O adapters to add I/Os (See I/O Expansion Modules - page 22)</td>
</tr>
</tbody>
</table>

**Add-on COM modules**

- Supports up to 3 Uni-COM™ Modules1
- Supports up to 4 Uni-COM™ Modules1

**Program**

- Application Memory: 8 MB

**HMI Panel**

- Color Touchscreen: Resistive, Analog, Resistive / 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)
  - USP-070-B08: 196.0 x 134.0
  - USP-070-B10: 281.0 x 214.0
  - USP-104-B10: 395.0 x 249.0
- Resolution: 800 x 480 (WVGA) 800 x 600 (SVGA) 1366 x 768
- Keys: Virtual Keyboard

**Environment**

- Protection: IP66 / NEMA4X when panel-mounted2
- Operating Temperature: -4°F to 131°F (-20°C to 55°C) 32°F to 122°F (0°C to 50°C)
- Standard: UL, CE, UKCA, EAC, UL Hazardous Locations, Class I, Division 2
- General: Battery - 4 years typical at 77°F (25°C), battery back-up for memory and RTC
- Clock: Real-time clock functions (date and time)
- Power Supply: 12/24VDC3

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* 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.

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 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.

3 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.

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

Sunit Gupte,
System Integration Specialist at Shriram Automation

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* 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.

** UniStream complies with IP66 and NEMA4X only if audio-jack seal is installed. Refer to HMI panel installation guide.**

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** UniStream complies with IP66 and NEMA4X only if audio-jack seal is installed. Refer to HMI panel installation guide.**

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**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

- **Features**
  - UniStream® SeriesVisionTM
  - UniStream® SeriesSambaTM
  - UniStream® SeriesJazz®
  - Serie 1716

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

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**UniStream**

5"

7"

10.1"

---

<table>
<thead>
<tr>
<th>Part Number</th>
<th>UniStream 5</th>
<th>UniStream 7</th>
<th>UniStream 10.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Memory</td>
<td>8 MB</td>
<td>8 MB</td>
<td>8 MB</td>
</tr>
<tr>
<td>HMI Panel</td>
<td>Color Touchscreen: Resistive, Analog</td>
<td>Color Touchscreen: Resistive, Analog</td>
<td>Color Touchscreen: Resistive, Analog</td>
</tr>
<tr>
<td>Viewing Area Width X Height (mm)</td>
<td>108 X 64.8</td>
<td>154.08 X 85.92</td>
<td>222.72 X 125.28</td>
</tr>
<tr>
<td>Cut Out Width X Height (mm)</td>
<td>148.2 X 93.2</td>
<td>196 X 134</td>
<td>266.6 X 177.3</td>
</tr>
<tr>
<td>Resolution Width X Height (mm)</td>
<td>800 X 480 (WVGA)</td>
<td>1024 x 600 (WSVGA)</td>
<td>1024 x 600 (WSVGA)</td>
</tr>
</tbody>
</table>

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**Uni-COM™ Communication Modules**

- UAC-CX-WIFI-2: UniStream CX I/O Exp.Kit 1.2m
- UAC-CX-WIFI30: UniStream CX I/O Exp.KI 3m
- UAC-CX-WIFILXXXX: UniStream CX I/O Exp.KI 3mıLong Range + extended Power Supply, lengths: 6, 12, 15, 20, 30m

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* Pro versions only. Model numbers including B5 refer to Built-in, B10 to Built-in Pro.
** Up to 2 serial modules and one CANbus module.

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1 UniStream IO Expansion:
   - The first and plugged in the I/O expansion jack must be from the CX series Local Expansion Adapters.
   - The CX end and any following I/O Expansion modules are by UAC-WPxxx/UAC-WFPxxx adapters.
   - Up to 2 serial modules and one CANbus module.

2 For a list of relevant models, contact Unitronics.
**PLC**

- I/O options include digital, analog, high speed, and temperature
- Expand locally: up to 2,048 I/Os\(^1\)
- Expand remotely: via UniStream Remote I/O
- Auto-tune PID, up to 8 independent loops\(^2\)
- Recipes & data logging via data tables & sampling\(^3\)
- MicroSD card - log, backup, clone & more\(^3\)
- Function Blocks & Structs

**Virtual HMI**

- Full HMI functionality
- Support different resolution types
- Includes Drag & Drop graphic library
- Multi-language display
- Built-in Alarm Screens
- PDF viewer\(^1\)
- Multi-level password protection – easy and fast

**Supports 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)

**UniStream PLC**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>According to model (See UniStream Built-in &amp; UniStream PLC I/O Configurations on page 20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O Options</td>
<td></td>
</tr>
<tr>
<td>Total supported I/Os</td>
<td>Up to 2,048 I/O points</td>
</tr>
<tr>
<td>Built-in I/O</td>
<td>According to model (See Built-in I/O table - page 20)</td>
</tr>
<tr>
<td>Onboard I/O modules</td>
<td>Directly connect up to 8 Uni-I/O modules to the PLC, on the DIN rail</td>
</tr>
<tr>
<td>Local I/O Expansion</td>
<td>Use Local Expansion Adapters (see table below), according to model (See Uni-I/O table - page 21)</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>
</tr>
<tr>
<td>Add-on COM modules</td>
<td>Add up to 3 COM modules(^1)</td>
</tr>
</tbody>
</table>

**Communication**

- Built-in ports
  - 2 Ethernet TCP/IP
  - 1 USB host
  - 1 Mini USB for programming\(^1\)
- Add-on ports\(^5\)
  - 1 CANbus
  - 1 RS485
  - 1 RS232

**Fieldbus**

- EtherNet/IP
- MODBUS: Serial & TCP/IP
- CANopen, CANopen v2, UniCAN
- BACnet, KNX and M-Bus via gateway
- Message Composer for 3rd party protocols

**Advanced Communications**

- OPC UA
- MQTT Client
- SNMP
- SQL Client\(^4\)
- REST API
- FTP server & client
- Web Server\(^4\)
- E-mail & SMS
- Remote access via VNC
- VNC Client
- 4G Routers

**Program**

- Application Memory: 8 MB

**HMI**

- 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: -4°F to 131°F (-20°C to 55°C)
- Standards: UL, CE, UKCE, EAC, UL Hazardous Locations, Class I, Division2

**General**

- Battery: Model: 3V CR2032 Lithium battery
- 4 years typical at 25°C, battery back-up for memory and RTC
- Clock: Real-time clock functions (date and time)

**Local Expansion Adapters**

| LAG-XXX25 | Short Range Kit, 1.25m |
| LAG-XXX25U | Short Range + embedded Power Supply Kit, 1.25m |
| LAG-XXX30 | Short Range Kit, 3m |
| LAG-XXX30U | Short Range Kit + embedded Power Supply, 3m |
| LAG-XXFXXXX | Long Range + embedded Power Supply, lengths: 6, 12, 15, 20, 30m |

**Uni-COM™ Communication Modules**

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

\(^1\) Up to 2 serial modules for B10/B5 and one for B3
\(^2\) 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
\(^5\) For a list of relevant models, contact Unitronics
I/O Configurations

UniStream Built-in & UniStream PLC

<table>
<thead>
<tr>
<th>Article</th>
<th>I/O Configurations</th>
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<tbody>
<tr>
<td>USC-B5-B1</td>
<td>No built-in I/Os</td>
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<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>Operating Voltage</th>
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<tr>
<td>USC-B5-B1</td>
<td>10 Digital, 2 Analog, 2 Analog</td>
<td>10 Digital</td>
</tr>
<tr>
<td>USC-B5-B2</td>
<td>10 Digital, 2 Analog, 2 Analog, 2 PWN &amp; 2 Relay</td>
<td>10 Digital, 2 Analog</td>
</tr>
<tr>
<td>USC-B5-B3</td>
<td>10 Digital, 2 Analog, 2 Analog, 2 PWN &amp; 2 Relay</td>
<td>10 Digital</td>
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</tbody>
</table>

* * Article | * Summary | Digital (Isolated) | HSC/Shock- encoder | Analog | Temperature, inputs, RTD/TC | Transmitter (Isolated) | PWM * Relay | Analog |
<table>
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Expand Locally via Uni-I/O™

UniStream Modular, Built-in & UniStream PLC - Expand up to 2048 I/O via Uni-I/O modules.

<table>
<thead>
<tr>
<th>I/O Module</th>
<th>Unit</th>
<th>Temperature Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td>10 Digital</td>
<td>-</td>
</tr>
<tr>
<td>Analog</td>
<td>2 Analog, 2 Analog</td>
<td>-</td>
</tr>
<tr>
<td>Temperature, inputs, RTD/TC</td>
<td>2 (Isolated)</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Digital (Isolated)</th>
<th>HSC/Shock- encoder</th>
<th>Analog</th>
<th>Temperature, inputs, RTD/TC</th>
<th>Transmitter (Isolated)</th>
<th>PWMM</th>
<th>I/O Module</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>USC-B5-B1</td>
<td>10 Digital</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>USC-B5-B1</td>
<td></td>
</tr>
<tr>
<td>USC-B5-B2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>USC-B5-B2</td>
<td></td>
</tr>
<tr>
<td>USC-B5-B3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>USC-B5-B3</td>
<td></td>
</tr>
</tbody>
</table>

DIN-rail Power Supplies

<table>
<thead>
<tr>
<th>DIN-rail Power Supplies</th>
<th>24V</th>
<th>24V</th>
<th>24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>UAP-24V24W</td>
<td>10 Digital</td>
<td>2 (Isolated)</td>
<td>2 (Isolated)</td>
</tr>
<tr>
<td>UAP-24V60W</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>UAP-24V96W</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*To order as a UniCloud Inside model: replace the letter B with ‘C’—US5-B5-B1 to US5-C5-B1

Note that the high-speed inputs are included in the total number of digital inputs.

Note that the PWMM outputs are included in the total number of transmitter outputs.

*To order as a UniCloud Inside model: replace the letter B with ‘C’—US5-B5-B1 to US5-C5-B1

*Note that the high-speed inputs are included in the total number of digital inputs.

*Note that the PWMM outputs are included in the total number of transmitter outputs.

*To order as a UniCloud Inside model: replace the letter B with ‘C’—US5-B5-B1 to US5-C5-B1
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-bit Analog Resolution
- Operating temperature: -40°F to 158°F (-40°C to 70°C)

Remote Ethernet I/O Adapter

<table>
<thead>
<tr>
<th>Part 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-TC1</td>
<td>UniStream EtherCAT Remote I/O adapter 16 Modules</td>
</tr>
</tbody>
</table>

Input Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Inputs</th>
<th>Digital</th>
<th>Analog</th>
</tr>
</thead>
<tbody>
<tr>
<td>URD-0800</td>
<td>8 Digital Inputs, universal, 10RTB</td>
<td>8</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URD-1600-B</td>
<td>16 Digital Inputs, universal, 15RTB</td>
<td>16</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URD-0400B</td>
<td>4 Digital Inputs, 120VAC, 15RTB</td>
<td>4</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URD-0400C</td>
<td>4 Digital Inputs, 240VAC, 15RTB</td>
<td>4</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URD-0200E</td>
<td>2, 24VDC, High Speed / Encoder Inputs, 10RTD</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URD-0200D</td>
<td>2, 5VDC, High Speed / Encoder Inputs, 10RTD</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>URA-0400C</td>
<td>4 Analog Current Inputs 120V, 15RTB</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URA-0800C</td>
<td>8 Analog Current Inputs 120V, 15RTB</td>
<td>-</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>URA-0400U</td>
<td>16 Analog Current Inputs 120V, 15RTB</td>
<td>-</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>URA-0400P</td>
<td>4 Analog Voltage Inputs 120V, 15RTB</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URA-0800P</td>
<td>8 Analog Voltage Inputs 120V, 15RTB</td>
<td>-</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>URA-1600P-8</td>
<td>16 Analog Voltage Inputs 120V, 18RTB</td>
<td>-</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>URA-0400T</td>
<td>4 Analog Current Inputs 160V, 15RTB</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URA-0800T</td>
<td>8 Analog Current Inputs 160V, 15RTB</td>
<td>-</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>URA-1600T-8</td>
<td>16 Analog Current Inputs 160V, 18RTB</td>
<td>-</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>URA-0400U</td>
<td>4 Analog Voltage Inputs 160V, 15RTB</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URA-0800U</td>
<td>8 Analog Voltage Inputs 160V, 15RTB</td>
<td>-</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>URA-1600U-8</td>
<td>16 Analog Voltage Inputs 160V, 18RTB</td>
<td>-</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>URS-4RT</td>
<td>4 RTD / Resistance Input, 10RTB</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URS-4TC</td>
<td>4 Thermocouple / mV Input, 10RTB</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>URS-2LC</td>
<td>2 Load cells / Strain gauge, 18RTB</td>
<td></td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Output Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>URD-0004RH</td>
<td>4 Relay Outputs, 10RTB</td>
<td>Transistor: 4</td>
</tr>
<tr>
<td>URD-0004SK</td>
<td>4 Solid State Relay Outputs, 240V, 10RTB</td>
<td>- 4 -</td>
</tr>
<tr>
<td>URD-0004SM</td>
<td>4 Solid State Relay Outputs, 110V, 10RTB</td>
<td>- 4 -</td>
</tr>
<tr>
<td>URD-0004SN</td>
<td>4 Solid State Relay Outputs, 24V, 10RTB</td>
<td>- 4 -</td>
</tr>
<tr>
<td>URD-0008NH</td>
<td>8 Digital Outputs (Sink), 24VDC, 0.5A, 10RTB</td>
<td>8 - -</td>
</tr>
<tr>
<td>URD-0008NW</td>
<td>8 Digital Outputs (Sink), 24VDC, 1A, 10RTB</td>
<td>8 - -</td>
</tr>
<tr>
<td>URD-0160NG</td>
<td>16 Digital Outputs (Sink), 24VDC, 0.3A, 10RTB</td>
<td>16 - -</td>
</tr>
<tr>
<td>URD-0008CH</td>
<td>8 Digital Outputs (Source), 24VDC, 0.5A, 10RTB</td>
<td>8 - -</td>
</tr>
<tr>
<td>URD-0008CI</td>
<td>8 Digital Outputs (Source), 24VDC, 2A, 10RTB</td>
<td>8 - -</td>
</tr>
<tr>
<td>URD-0160CG</td>
<td>16 Digital Outputs (Source), 24VDC, 0.3A, 10RTB</td>
<td>16 - -</td>
</tr>
<tr>
<td>URD-02PU</td>
<td>2 Pulse Outputs, 10RTB</td>
<td>2 - -</td>
</tr>
<tr>
<td>URD-02PW</td>
<td>2 PWM Outputs, 10RTB</td>
<td>2 - -</td>
</tr>
<tr>
<td>URD-04PW</td>
<td>4 PWM Outputs, 10RTB</td>
<td>4 - -</td>
</tr>
<tr>
<td>URA-0004W</td>
<td>4 Analog Current Outputs 120V, 15RTB</td>
<td>- - 4</td>
</tr>
<tr>
<td>URA-0008W</td>
<td>8 Analog Current Outputs 120V, 15RTB</td>
<td>- - 8</td>
</tr>
<tr>
<td>URA-0004K</td>
<td>4 Analog Voltage Outputs 120V, 15RTB</td>
<td>- - 4</td>
</tr>
<tr>
<td>URA-0008K</td>
<td>8 Analog Voltage Outputs 120V, 15RTB</td>
<td>- - 8</td>
</tr>
<tr>
<td>URA-0160K-8</td>
<td>16 Analog Voltage Outputs 120V, 15RTB</td>
<td>- - 16</td>
</tr>
<tr>
<td>URA-0004Y</td>
<td>4 Analog Current Outputs 160V, 15RTB</td>
<td>- - 4</td>
</tr>
<tr>
<td>URA-0008Y</td>
<td>8 Analog Current Outputs 160V, 15RTB</td>
<td>- - 8</td>
</tr>
<tr>
<td>URA-0004Z</td>
<td>4 Analog Voltage Outputs 160V, 15RTB</td>
<td>- - 4</td>
</tr>
<tr>
<td>URA-0008Z</td>
<td>8 Analog Voltage Outputs 160V, 15RTB</td>
<td>- - 8</td>
</tr>
<tr>
<td>URA-0016Z-8</td>
<td>16 Analog Voltage Outputs 160V, 15RTB</td>
<td>- - 16</td>
</tr>
</tbody>
</table>

Power

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>URP-PS24V</td>
<td>Input 24VDC, Output system Power 5VDC/1A</td>
<td>-</td>
</tr>
<tr>
<td>URP-C0V0V</td>
<td>8, 0VDC Potential Distributor</td>
<td>- 8</td>
</tr>
<tr>
<td>URP-C24V24V</td>
<td>4, 24VDC and 0, 0VDC Potential Distributor</td>
<td>- 4 -</td>
</tr>
<tr>
<td>URP-PO1ST</td>
<td>Universal Field Power Distributor</td>
<td>-</td>
</tr>
<tr>
<td>URP-SHIELD</td>
<td>External Universal Shield Distributor</td>
<td>-</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

Software features vary according to controller model

---

**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><strong>Remote Access</strong></td>
<td>View and control a PLC directly from PC, via local or remote connection</td>
<td>• View an HMI panel, use the PC keyboard + mouse to run the HMI application&lt;br&gt; • Operate and Data Table values: view values during runtime, import and export values from Excel/csv files</td>
<td>• Operators requiring Remote Access&lt;br&gt; • System integrators: remote debugging, troubleshooting, fault-finding</td>
</tr>
<tr>
<td><strong>Remote Operator</strong></td>
<td>Simultaneously view and operate the HMI panels of multiple PLCs in multiple locations</td>
<td>• Easily place HMI panels side-by-side to monitor distributed systems or applications in several locations&lt;br&gt; • Run the HMI applications via PC keyboard + mouse</td>
<td>• Control room operators&lt;br&gt; • Installation managers</td>
</tr>
<tr>
<td><strong>DataXport</strong></td>
<td>Create Data Logs from Data Tables and operand values in PLCs</td>
<td>• Harvest data from multiple PLCs on demand or according to timeframe&lt;br&gt; • Export the data to an Excel/csv file&lt;br&gt; • Automatically email files</td>
<td>• Data analysts&lt;br&gt; • Plant managers&lt;br&gt; • Process engineers</td>
</tr>
<tr>
<td><strong>UniDownload Designer</strong></td>
<td>Create compressed VisiLogic/U90Ladder applications (.udc files) for secure installation in local or remote PLCs</td>
<td>• Prevent end-users from uploading and opening the application&lt;br&gt; • Include an OS to be installed at download set a download channel, restrict end-user actions after installation and more</td>
<td>• OEMs / System Integrators can:&lt;br&gt; • Protect source code&lt;br&gt; • Enable customers to install an application without using VisiLogic or U90Ladder</td>
</tr>
<tr>
<td><strong>Download Manager &amp; UniDownloader</strong></td>
<td>Securely install .udc applications in local or remote PLCs</td>
<td>• Download Manager: installs the same application in multiple PLCs&lt;br&gt; • UniDownloader: installs an application in a single PLC</td>
<td>• OEMs / System Integrators in installations with high security requirements</td>
</tr>
<tr>
<td><strong>SD Card Suite</strong></td>
<td>Remotely access and manage SD cards and their data</td>
<td>• Browse a remote PLC’s SD card&lt;br&gt; • Read/write data, including Data Table files&lt;br&gt; • View SD card contents - Trends, logs, alarm history, data tables - export to Excel</td>
<td>• Data analysts&lt;br&gt; • Plant managers&lt;br&gt; • Process engineers</td>
</tr>
<tr>
<td><strong>UniVision Licensing</strong></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&lt;br&gt; • Option to activate or deactivate different sections of your application&lt;br&gt; • Prevents theft of applications</td>
<td>• System integrators&lt;br&gt; • OEMs</td>
</tr>
<tr>
<td><strong>UniOPC Server</strong></td>
<td>Exchange data between Unitronics PLCs and OPC-supported software</td>
<td>• Create channel to connect PLCs to SCADA systems, such as plant control rooms&lt;br&gt; • Compliant with the OPC foundation standards</td>
<td>• Control room operators</td>
</tr>
<tr>
<td><strong>UniDOE</strong></td>
<td>Exchange data with Windows based applications</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>
<tr>
<td><strong>Programming tools for developers</strong></td>
<td>Easily implement communication between PLC &amp; PC applications</td>
<td>Using ActiveX &amp; .NET communication drivers</td>
<td>Developers</td>
</tr>
</tbody>
</table>
**V700™ / 1040™ / 1210™**

**Vision**

**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, CANbus, CANopen2, 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 Module support

“**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
- SNAP 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 modem 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: Vision 560 and Vision 570**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Vision 560</th>
<th>Vision 570</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
<td>V560-T25B</td>
<td>V570-57-T20B-J</td>
</tr>
<tr>
<td><strong>I/O Options</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total supported I/Os</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>
| **I/O Expansion**              | 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). |
| **Local I/O Expansion**        | Use Local Expansion Adapters to add up to 8 modules | Use EX-RC1 adapters to further extend the number of I/Os |
| **Remote I/O Expansion**       |            |            |
| **Program**                    |            |            |
| Application Memory             | Application Logic: 2MB + Images: 16MB + Fonts: 1MB |            |
| **Scan Time**                  | 9μsec per 1K of typical application |            |
| **Memory Operands**            | 8192 x 4K, 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 |            |
| **HMI Panel**                  |            |            |
| Color Touchscreen              | Resistive, Analog |            |
| Viewing Area                   | 115.2 x 86.4 | 182 x 124.5 |
| Cut Out                        | 209 x 126.0 | 320 x 240 (20/40) |
| Resolution                     | 320 x 240 (20/40) |            |
| Keys                           | 24 programmable keys | Virtual Keyboard |
| Labeling options               | function keys or customized |            |
| **Environment**                |            |            |
| Protection                     | IP66 / NEMA4X when panel mounted |            |
| Operating Temperature          | 32°F to 122°F (0 to 50ºC) |            |
| Standards                      | UL, CE, EAC2 | UNCA, UL, CE, EAC, UL Hazardous Locations, Class I, Division2 |
| **General**                    |            |            |
| Battery                        | 7 years typical at 77°F (25°C), battery back-up for all memory sections and RTC |            |
| Clock                          | Real-time clock functions (date and time) |            |
| Power Supply                   | 12/24VDC |            |

---

1. For 3G, via CANbus. 
2. For a list of relevant models, contact Unitronics.
3. 12V applies to PLC power supply only, and not to the I/O.
4. 2928
Advanced PLC controllers with built-in HMI panel. Includes built-in, expandable I/O configuration.

**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
- Multi-language display

**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 programming
  - 1 RS485/RS232
- Add-on ports
  - 1 Serial/Ethernet/Profibus
  - 1 CANbus

**Protocols**
- MODBUS TCP
- SNIP6 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

**Vision 350™ / 430™ / 130™ Models**

<table>
<thead>
<tr>
<th>Part</th>
<th>Summary</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Transistor</th>
<th>PNP/NPN</th>
<th>Relay</th>
<th>Operating Voltage</th>
</tr>
</thead>
</table>
| V350 | V350-J-B1 | 10 onboard I/Os | — | — | — | 2 | 2 | 24VDC
| V350-J-TA24 | V350-J-TA24 | 128 Digital, 254 Inputs/2 Relay Outputs | 3 | 4 | 0-10V, 4-20mA | 2 | VFD/DC
| V350-J-TRA22 | V350-J-TRA22 | 8 Digital, 42 I/Os | 1 | 0-10V, 4-20mA | 2 | CPT/DC
| V350-J-B1 | V350-J-B1 | 10 onboard I/Os | — | — | — | 2 | 24VDC

**Extended Temperature Unit Available:**
- Operational temperature range between -22°F to 140°F (-30°C to 60°C), available for panel Part Number: V350-JS-TA24.
- Improved temperature available for Ethernet (Part Number: V100-S-ET2) and CANbus (Part Number: V100-S-CAN).

**Extended Temperature Unit:**
- temperature range between -22°F to 140°F (-30°C to 60°C), available for panel Part Number: V350-JS-TA24.
**I/O Expansion Modules & Accessories - Vision Series**

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

<table>
<thead>
<tr>
<th>I/O Expansion Modules</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Weight Measurement</th>
<th>Transistors</th>
<th>PN# (V2X)</th>
<th>Rating</th>
<th>Analog</th>
<th>Analog</th>
<th>Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>IO-DWA-709</td>
<td>6</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td>8</td>
<td>2</td>
<td>12 VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IO-DWA-804</td>
<td>4</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td>4</td>
<td>2</td>
<td>12 VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IO-DWA-809</td>
<td>1</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 VDC</td>
<td></td>
</tr>
<tr>
<td>EX-DWA-RO108</td>
<td>1</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 VDC</td>
<td></td>
</tr>
<tr>
<td>EX-DWA-RO168</td>
<td>8</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 VDC</td>
<td></td>
</tr>
<tr>
<td>EX-DWA-RO196</td>
<td>16</td>
<td>1</td>
<td>Serial-1 bit</td>
<td>1.5 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 VDC</td>
<td></td>
</tr>
</tbody>
</table>

**Analog, Temperature, and Weight Measurement**

| EX-A4-A02             | 2       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-PT400              | 4       | 1      | PT-400R/8N/16N/32N       | 1.5 g               |              |           |        |        | 12 VDC |
| EX-A6-A02             | 2       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-LC1                | 1       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-LC2                | 1       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-ADJ1               | 1       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |

**Digital/Antenna**

| EX-DWA-A09/R16        | 16      | 4      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-DWA-A16/R16        | 2       | 32kHz | 16.50 kHz               | 1.5 g               |              |           |        |        | 12 VDC |
| EX-DWA-A24/R32        | 1       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-DWA-A24/R64        | 1       | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-DWA-A24/T10Y       | 16      | 1      | Serial-1 bit             | 1.5 g               |              |           |        |        | 12 VDC |
| EX-FXRC15-111111      | 9       | 25kHz | 25kHz                   | 1.5 g               |              |           |        |        | 12 VDC |

**High-speed and Remote I/O Modules**

**I/O Expansion Module Accessories**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Local I/O Module adapter - Galactic isolation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-A20</td>
<td>Embedded I/O module adapter, Galactic isolation. Up to B Modules may be connected to a single PLC. Supports both 10/32 VDC.</td>
<td>Supports both 10/32 VDC.</td>
</tr>
<tr>
<td>EX-A11</td>
<td>Remote I/O module adapter, via CANbus. Multiple adapters may be connected to a single PLC. Supports both 10/32 VDC.</td>
<td>Supports both 10/32 VDC.</td>
</tr>
</tbody>
</table>

**Snap-in I/O Modules**

Compatible with Vision models: V560, V570, V700, V1094 and V1210.

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-pin</td>
<td>10-pin</td>
<td>24 VDC</td>
</tr>
<tr>
<td>2-pin</td>
<td>10-pin</td>
<td>24 VDC</td>
</tr>
<tr>
<td>1-pin</td>
<td>1-pin</td>
<td>24 VDC</td>
</tr>
<tr>
<td>4-pin</td>
<td>1-pin</td>
<td>24 VDC</td>
</tr>
<tr>
<td>8-pin</td>
<td>1-pin</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

**Vision & Samba COM Modules**

Enhance Vision’s communication capabilities.

<table>
<thead>
<tr>
<th>Model</th>
<th>Ethernet</th>
<th>HK223/R485</th>
<th>Isolated HK223/R485</th>
<th>CANbus</th>
<th>Profibus</th>
</tr>
</thead>
<tbody>
<tr>
<td>5650x7</td>
<td>V100-17-ET2</td>
<td>V100-17-RS4X</td>
<td>V100-17-CAN</td>
<td>V100-17-PB1</td>
<td>V100-17-PB1</td>
</tr>
<tr>
<td>V560-10</td>
<td>V570-10-ET2</td>
<td>V570-10-RS4X</td>
<td>V570-10-CAN</td>
<td>V570-10-PB1</td>
<td>V570-10-PB1</td>
</tr>
<tr>
<td>V700-10</td>
<td>V1094-10-ET2</td>
<td>V1094-10-RS4X</td>
<td>V1094-10-CAN</td>
<td>V1094-10-PB1</td>
<td>V1094-10-PB1</td>
</tr>
<tr>
<td>V1210-10</td>
<td>V1210-10-ET2</td>
<td>V1210-10-RS4X</td>
<td>V1210-10-CAN</td>
<td>V1210-10-PB1</td>
<td>V1210-10-PB1</td>
</tr>
</tbody>
</table>

**DIN-rail Vision’s power supplies**

<table>
<thead>
<tr>
<th>DIN-rail Vision’s power supplies</th>
<th>WAP-24V24W</th>
<th>WAP-24V4W</th>
<th>WAP-24V6W</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VDC 24 W 1A</td>
<td>60 W 24 V 2.5A</td>
<td>90 W 24-VAC</td>
<td></td>
</tr>
</tbody>
</table>
SAMBA™ models - Built-in I/O configurations

### SAMBA

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Summary</th>
<th>Digital</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Transistor</th>
<th>PWM/HDSP</th>
<th>Relay</th>
<th>Analog</th>
<th>Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM35-J-R20</td>
<td>16 Digital, 2 Analog Inputs, 6 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>—</td>
<td>24VDC</td>
</tr>
<tr>
<td>SM43-J-R20</td>
<td>16 Digital, 2 Analog Inputs, 6 Relay Outputs</td>
<td>12</td>
<td>3</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM70-J-R20</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM35-J-T20</td>
<td>16 Digital, 2 Analog Inputs, 6 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>—</td>
<td>24VDC</td>
</tr>
<tr>
<td>SM43-J-T20</td>
<td>16 Digital, 2 Analog Inputs, 6 Relay Outputs</td>
<td>12</td>
<td>3</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM70-J-T20</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM35-J-RA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM43-J-RA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM70-J-RA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM35-J-TA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM43-J-TA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
<tr>
<td>SM70-J-TA22</td>
<td>12 Digital, 1 HSC/Shaft-encoder, 2 Analog, 8 Relay Outputs</td>
<td>12</td>
<td>1</td>
<td>0-10V, 0-20V, 4-20mA</td>
<td>2</td>
<td>PT100</td>
<td>—</td>
<td>5</td>
<td>0.5kHz</td>
</tr>
</tbody>
</table>
JAZZ®

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
Built-in ports
• 1 Mini USB for programming

Add-on ports
• 1 Ethernet TCP/IP
• 1 RS232 / RS485

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

Advanced Communications
• SMS via GSM
• 3G modem 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

Jazz® models - Built-in I/O configurations

I/O Options
Total supported I/Os: 40
Built-in: According to model (See Built-in I/Os table below)
I/O Expansion: -
Program
Memory Operands: 256 coils, 256 registers, 64 timers
Ladder Memory: 40K

HMI Panel
2 lines, 16 characters

Environment
Protection: IP65 / NEMA4X when panel mounted
Operating Temperature: 32°F to 122°F (0 to 50ºC)

General
Battery: 10 years typical at 77°F (25°C), battery back-up for RTC and system data, including variable data
Clock: Real-time clock functions (date and time)

Jazz® models - Built-in I/O configurations

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Summary</th>
<th>Digital</th>
<th>HSC/Shaft encoder</th>
<th>Analog</th>
<th>Temperature Measurement</th>
<th>Transistor</th>
<th>RS485/RS232</th>
<th>Relay</th>
<th>Analog</th>
<th>Operating Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>UAP-24Y24W</td>
<td>4 digital inputs, 4 relay outputs</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>24V/DC</td>
</tr>
<tr>
<td>UAP-24Y44W</td>
<td>4 digital inputs, 4 relay outputs</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>24V/DC</td>
</tr>
<tr>
<td>UAP-24Y64W</td>
<td>4 digital inputs, 4 relay outputs</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>24V/DC</td>
</tr>
</tbody>
</table>

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.

Add-on ports and Accessories

<table>
<thead>
<tr>
<th>COM Port kit</th>
<th>Ethernet Communication Port</th>
<th>Program Cloner module</th>
<th>Keypad Slide kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232/RS485</td>
<td>Part Number: JZ20-ET1 1</td>
<td>Part Number: MJ20-MEM1</td>
<td>Part Number: MJ20-JZ-SL1 1</td>
</tr>
<tr>
<td>UAP-24Y24W</td>
<td>Part Number: JZ20-ET1 1</td>
<td>Part Number: MJ20-MEM1</td>
<td>Part Number: MJ20-JZ-SL1 1</td>
</tr>
</tbody>
</table>

Not yet UL certified
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

**Hardware**

**B8 Series:** UCR-ST-B8

- 4G LTE & WiFi cellular router with embedded Firewall, 4 Ethernet ports, Digital & Analog I/Os, RS232, RS485, GNSS (GPS), microSD & USB interface.

<table>
<thead>
<tr>
<th>Feature</th>
<th>B5 Series</th>
<th>B8 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile</td>
<td>4G (LTE) Cat 4 DL, up to 150 Mbps, UL up to 50 Mbps, DC-HSPA+, LMTS, TD-SCDMA, EDGE, GPRS</td>
<td>4G LTE Cat 4 DL, up to 150 Mbps, UL up to 50 Mbps, DC-HSPA+, LMTS, TD-SCDMA, EDGE, GPRS</td>
</tr>
<tr>
<td>CPU</td>
<td>Atheros Hornet, MIPS 24kc, 400 MHz</td>
<td>Atheros Wasp, MIPS 74kc, 550 MHz</td>
</tr>
<tr>
<td>Memory</td>
<td>16 MB Flash, 32 MB DDR 2 RAM</td>
<td>16 MB Flash, 32 MB DDR 2 RAM</td>
</tr>
<tr>
<td>Ethernet</td>
<td>4x 10/100 Ethernet ports: 1x WAN (configurable as LAN), 1x LAN</td>
<td>4x 10/100 Ethernet ports: 1x WAN (configurable as LAN), 3x LAN ports</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Passive PoE over spare pairs (available from HW revision 0007 and batch number 0010)</td>
<td>Passive PoE over spare pairs (available from HW revision 0007 and batch number 0010)</td>
</tr>
<tr>
<td>PoE (passive)</td>
<td>Possibility to power up through LAN port, not compatible with IEEE 802.3 af and 802.3 at</td>
<td>Possibility to power up through LAN port, not compatible with IEEE 802.3 af and 802.3 at</td>
</tr>
<tr>
<td>Inputs/Outputs</td>
<td>1x Digital Input, 1x Digital Output</td>
<td>1x Digital Input, 1x Digital Output</td>
</tr>
<tr>
<td>Connectors</td>
<td>3x Inputs (Digital, Digital galvanically isolated, Analog)</td>
<td>3x Inputs (Digital, Digital galvanically isolated, Analog)</td>
</tr>
<tr>
<td>Memory Cards</td>
<td>16 MB Flash, 32 MB DDR 2 RAM</td>
<td>16 MB Flash, 32 MB DDR 2 RAM</td>
</tr>
<tr>
<td>SIM</td>
<td>1x external SIM holder</td>
<td>2x external SIM holders</td>
</tr>
<tr>
<td>Status LEDs</td>
<td>1x connection type status, 3x connection strength, 2x LAN status, 1x Power</td>
<td>1x connection type status, 3x connection strength, 4x LAN status, 1x Power</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°F to 167°F (-40°C to 75°C)</td>
<td>-40°F to 167°F (-40°C to 75°C)</td>
</tr>
<tr>
<td>Housing</td>
<td>Aluminum housing, plastic panels</td>
<td>Aluminum housing, plastic panels</td>
</tr>
<tr>
<td>Dimensions</td>
<td>83 mm x 74 mm x 25 mm</td>
<td>100 mm x 110 mm x 50 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>125 g</td>
<td>287 g</td>
</tr>
</tbody>
</table>

**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.

**Software Features**

- Dynamic DNS
- Multiple VPN Protocols
- Wireless Access Point and Wireless Client
- GPS Geo-fencing
- Firewall
- I/O Control
- MQTT Broker
- Modbus TCP and Modbus RTU
- NTP Server

**Network Coverage**

<table>
<thead>
<tr>
<th>Part 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, Middle East, Africa, Korea, Thailand, Malaysia</td>
<td>4G (LTE-FDD): B1, B3, B7, B8, B20, B28</td>
</tr>
<tr>
<td>UCR-ST-B5-SA</td>
<td>North America, Australia, New Zealand, Taiwan</td>
<td>4G (LTE-FDD): B2, B4, B12</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, Middle East, Africa, Korea, Thailand, India, Malaysia</td>
<td>4G (LTE-FDD): B1, B3, B7, B8, B20, B28</td>
</tr>
<tr>
<td>UCR-ST-B8-SA</td>
<td>North America, Australia, New Zealand, Taiwan</td>
<td>4G (LTE-FDD): B2, B4, B12</td>
</tr>
</tbody>
</table>

*Please check with your mobile network provider

**Accessories**

- UCR-GP-B5-DIN
- UCR-B5/B8 DIN RAIL KIT
- UCR-ACC-02
- 89 LTE ANTENNA (SMA, 3m CBL)
- UCR-ACC-03
- B5 LTE ANTENNA (SMA, 3m CBL)
- UCR-ACC-04
- GNSS ANTENNA (SMA, 3m CBL)
- UCR-ACC-07
- B5 LTE ANTENNA (SWIVEL, SMA)
- UCR-ACC-08
- B5 WIFI 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.

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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 defines the correct configuration & sets up communications.
  - Analyzes mechanical properties, and recommends safe values.
  - Test & view performance via built-in powerful, high-speed scope.

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

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

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**No motion programming knowledge needed!**
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
To Find Your Local Distributor, Visit Our Website:
UnitronicsPLC.com ➔ Where To Buy

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