

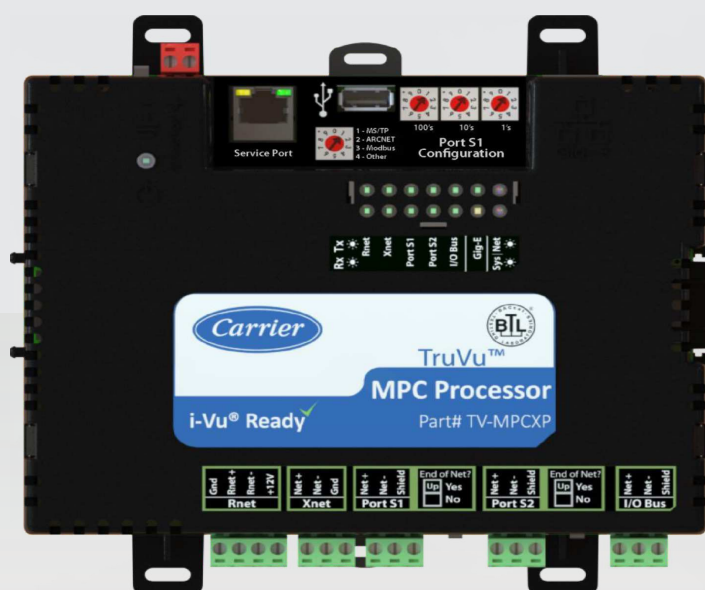


Su socio estratégico en soluciones de control

CONTROLADORES BACNET HVAC

# TruVu MPC Processor

TV-MPCXP



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# i-Vu<sup>®</sup> Building Automation System TruVu<sup>™</sup> MPC Processor

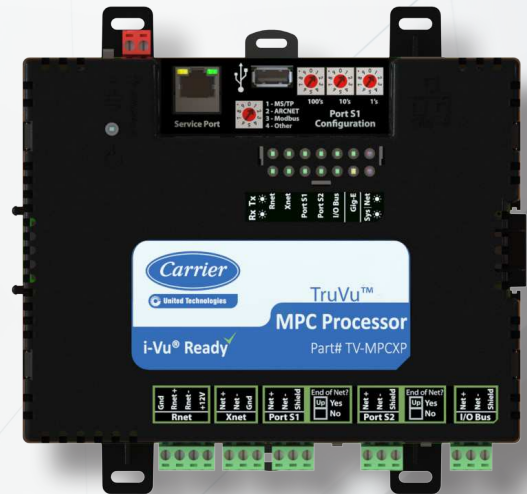


Part Number: TV-MPCXP

*The i-Vu<sup>®</sup> Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet<sup>®</sup> controllers, and state-of-the-art Carrier equipment.*

The Carrier<sup>®</sup> TruVu<sup>™</sup> MPC Processor provides multi-purpose monitoring and control for a variety of HVAC system applications. Flexible and versatile, it supports multiple I/O configurations for accomplishing both common and custom HVAC control strategies.

The TruVu MPC Processor features built-in routing and integration capabilities, along with support for up to nine TruVu MPC I/O expansion modules and a total of 180 input/output points.



## Application Features

- Comprehensive library of factory-engineered control programs available for complete air-side and water-side system control
- Graphically programmable using the Snap programming tool
- Supports Carrier communicating room sensors, which allow for local setpoint adjustment and local overrides

## Hardware Features

- Gig-E 1000 Mbps Ethernet port supports BACnet/IP, Modbus TCP/IP and DHCP addressing
- Local access 10/100 Ethernet port for system startup and troubleshooting
- Real-time clock keeps time in the event of power failure for up to 3 days without batteries
- Capable of system or stand-alone operation
- Supports native BACnet MS/TP and BACnet over ARC156 communications
- Can be din-rail or screw mounted
- Supports up to 9 TruVu<sup>™</sup> MPC I/O expanders and/or 6 MPC Open XPIO expanders (max 180 total points)

## BACnet Features

- Conforms to the BACnet Building Controller (B-BC), BACnet Router (B-RTR), and BACnet BBMD (B-BBMD), standard device profiles
- Supports BACnet interoperability and routing with and between BACnet/IP, BACnet MS/TP, and BACnet over ARC156
- High-speed, BACnet over ARC156 communications delivers information at the speeds necessary for effective data transfer
- Can serve as a BACnet Broadcast Management Device (BBMD)
- Supports BACnet Foreign Device Registration (FDR)

## System Benefits

- Fully plug-and-play with the Carrier i-Vu<sup>®</sup> building automation system
- Supports demand limiting and optimal start for maximum energy savings
- Supports up to 1,500 third-party BACnet points and up to 200 Modbus points for system integration



# i-Vu<sup>®</sup> Building Automation System

## TruVu<sup>™</sup> MPC Processor

Part Number: TV-MPCXP

<b>BACnet Support</b>	Conforms to the BACnet Building Controller (B-BC), BACnet Router (B-RTR), and BACnet BBMD (B-BBMD) device profiles as defined in BACnet standard 135-2001 Annex L 2012
<b>Communication Ports</b>	<p><b>Gig-E:</b> 10/100/1000 BaseT Ethernet port for BACnet/IP and/or BACnet/Ethernet and/or Modbus TCP/IP communication</p> <p><b>S1 ARC/MSTP:</b> High-speed EIA-485 port with <b>End of Net</b> switch for connecting one of the following:</p> <ul style="list-style-type: none"> <li>• BACnet ARCnet network at 156 kbps</li> <li>• BACnet MS/TP network at 9.6, 19.2, 38.4, 57.6, 76.8, or 115.2 kbps</li> <li>• Modbus RTU at 9.6, 19.2, 38.4, 57.6, 76.8 or 115.2 kbps</li> </ul> <p><b>S2 MSTP:</b> Electrically isolated EIA-485 port with <b>End of Net</b> switch for connecting one of the following</p> <ul style="list-style-type: none"> <li>• BACnet MS/TP network at 9.6, 19.2, 38.4, 57.6, , 76.8, or 115.2 kbps</li> <li>• Modbus RTU at 9.6, 19.2, 38.4, 57.6, 76.8 or 115.2 kbps</li> </ul> <p><b>Service:</b> 10/100 Base T Ethernet port for system start-up and troubleshooting</p> <p><b>IO Bus port:</b> Provides communication for wired TruVu MPC I/O expanders that are powered by external power supplies.</p> <p><b>IO Bus edge connector:</b> 6-pin connector that provides communication and power to a directly-connected TruVu MPC I/O expander</p>
<b>Third Party Integration</b>	Supports up to 1,500 third-party BACnet points and 200 Modbus points (memory dependent).
<b>Physical</b>	Fire-retardant plastic ABS, UL94-5VA
<b>I/O expanders</b>	Supports up to 9 TruVu <sup>™</sup> MPC I/O expanders and/or 6 MPC Open XPIO expanders (max 9 total)
<b>Protection</b>	<p>Two fast acting, 5mm x 20mm glass fuses:</p> <ul style="list-style-type: none"> <li>• A 2A fuse for the TV-MPCXP's power</li> <li>• A 4A fuse for the I/O bus edge connector</li> </ul> <p>The power and network ports comply with the EMC requirements EN50491-5-2.</p>
<b>Compliance</b>	<p><b>United States of America:</b> FCC compliant to Title CFR47, Chapter 1, Subchapter A, Part 15, Subpart B, Class A; UL listed to UL916, PAZX, Energy Management Equipment</p> <p><b>Canada:</b> Industry Canada Compliant, ICES-003, Class A; cUL listed UL 916, PAZX and Energy Management Equipment</p> <p><b>Europe:</b> EN50491-5-2:2009; Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment EN50491-3:2009, Part 3: Electrical safety requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU</p> <p><b>Australia and New Zealand:</b> C-Tick Mark, AS/NZS 61000-6-3</p>
<b>Real Time Clock</b>	Real-time clock keeps track of time in the event of a power failure for up to 3 days.
<b>Environmental Range</b>	<b>Operating:</b> -40 to 158°F (-40 to 70°C) 10 to 95% RH, non-condensing
<b>Power Requirements</b>	<p>24VAC ± 10%, 50-60Hz</p> <p>50 VA power consumption</p> <p>26VDC ± 10% 15W</p> <p>Single Class 2 source only, 100 VA or less</p>

### Dimensions

#### Overall

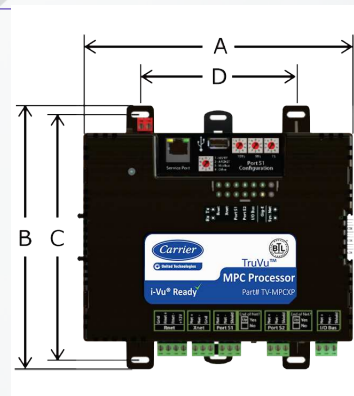
- A:** 7.1" (18.03 cm)
- B:** 6.95" (17.65 cm)

#### Mounting

- C:** 6.45" (16.38 cm)
- D:** 4.1" (10.4 cm)

**Depth:** 2.09" (5.31 cm)

**Weight:** 1.0 lbs (0.45 kg)



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Controls Expert Locator:  
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### Conózanos en nuestra web

Somos expertos en el desarrollo, instalación y mantenimiento de Sistemas de Control. Proveemos soluciones integrales de automatización y control para todo tipo de Edificios Inteligentes.

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### Descubra nuevas soluciones

Conozca nuestra serie de documentos con soluciones integrales que mejoran el control y la eficiencia, y nuestros últimos casos de éxito.

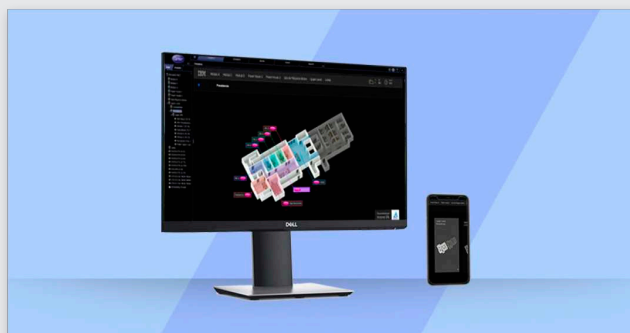
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### Explore otros equipos

Encuentre los productos necesarios para la gestión de edificios inteligentes o industrias; controladores BACnet HVAC, sistemas Carrier Confort Network, sensores y add-ons.

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### Pruebe nuestra demo i-Vu

Experimente nuestra interfaz gráfica para el control de equipos que se encuentran en los sistemas de edificios e industrias. Interactúe como si fuera un operador mediante el sistema i-Vu.

[Ir a anzures.com.ar/sistema](http://anzures.com.ar/sistema)



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