

1756 ControlLogix Chassis Specifications

Catalog Numbers 1756-A4/B, 1756-A4K/B, 1756-A4/C, 1756-A4K/C, 1756-A7/B, 1756-A7K/B, 1756-A7/C, 1756-A7K/C, 1756-A10/B, 1756-A10K/B, 1756-A10/C, 1756-A10K/C, 1756-A13/B, 1756-A13K/B, 1756-A13/C, 1756-A13K/C, 1756-A17/B, 1756-A17K/B, 1756-A17/C, 1756-A17K/C, 1756-A4LXT/B, 1756-A5XT/B, 1756-A7LXT/B, 1756-A7XT/B, 1756-A7XT/C, 1756-A10XT/C

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The ControlLogix® system is a modular system that requires a 1756 ControlLogix chassis. The chassis are designed for only horizontal back-panel mounting. Place any module into any slot. The backplane provides a high-speed communication path between modules.

AutoCAD product drawings are available at <http://www.rockwellautomation.com/global/support/drawings.page>.



Standard ControlLogix Chassis Specifications

The chassis backplane provides a high-speed communication path between modules and distributes power to each of the modules within the chassis.

Technical Specifications - ControlLogix Standard Chassis (Series B)

| Attribute | 1756-A4/B | 1756-A7/B | 1756-A10/B | 1756-A13/B | 1756-A17/B |
|---|---|--|--|--|--|
| Backplane current, chassis/slot max @ 1.2V DC | 1.5 A/– | | | | |
| Backplane current, chassis/slot max @ 3.3V DC | 4 A/4 A | | | | |
| Backplane current, chassis/slot max @ 5.1V DC | 15 A/6 A | | | | |
| Backplane current, chassis/slot max @ 24V DC | 2.8 A/2.8 A | | | | |
| Power dissipation, max | 4 W | 4.5 W | 5 W | 5.4 W | 6 W |
| Isolation voltage | Determined by installed power supply and modules | | | | |
| Slots | 4 | 7 | 10 | 13 | 17 |
| Mounting method | Only horizontal | | | | |
| Cabinet size (HxWxD), min | 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.) | 50.8 x 60.9 x 20.3 cm (20 x 24 x 8 in.) | 50.8 x 76.2 x 20.3 cm (20 x 30 x 8 in.) | 60.9 x 76.2 x 20.3 cm (24 x 30 x 8 in.) | 76.2 x 91.4 x 20.3 cm (30 x 36 x 8 in.) |
| Weight, approx | 0.75 kg (1.7 lb) | 1.10 kg (2.4 lb) | 1.45 kg (3.2 lb) | 1.90 kg (4.2 lb) | 2.20 kg (4.8 lb) |
| Location | Panel | | | | |
| Wire size | Functional Earth Ground - 8.3 mm ² (8 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater Protective Earth Ground - 2.1 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater | | | | |
| North American temperature code | T5 | | | | |
| IEC temperature code | T4 | T5 | | | |
| Enclosure type rating | None (open-style) | | | | |

Technical Specifications - ControlLogix Standard Chassis (Series C)

| Attribute | 1756-A4/C | 1756-A7/C | 1756-A10/C | 1756-A13/C | 1756-A17/C |
|---|---|--|--|--|--|
| Backplane current, chassis/slot max @ 1.2V DC | 1.5 A/– | | | | |
| Backplane current, chassis/slot max @ 3.3V DC | 4 A/4 A | | | | |
| Backplane current, chassis/slot max @ 5.1V DC | 15 A/6 A | | | | |
| Backplane current, chassis/slot max @ 24V DC | 2.8 A/2.8 A | | | | |
| Power dissipation, max | 4 W | 4.5 W | 5 W | 5.4 W | 6 W |
| Isolation voltage | Determined by installed power supply and modules | | | | |
| Slots | 4 | 7 | 10 | 13 | 17 |
| Mounting method | Only horizontal | | | | |
| Cabinet size (HxWxD), min | 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.) | 50.8 x 60.9 x 20.3 cm (20 x 24 x 8 in.) | 50.8 x 76.2 x 20.3 cm (20 x 30 x 8 in.) | 60.9 x 76.2 x 20.3 cm (24 x 30 x 8 in.) | 76.2 x 91.4 x 20.3 cm (30 x 36 x 8 in.) |
| Weight, approx | 0.75 kg (1.7 lb) | 1.10 kg (2.4 lb) | 1.45 kg (3.2 lb) | 1.90 kg (4.2 lb) | 2.20 kg (4.8 lb) |
| Location | Panel | | | | |
| Wire size | Functional earth ground - 8.3 mm ² (8 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater Protective earth ground - 2.1 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater | | | | |
| North American temperature code | T4 | | | | |
| IEC temperature code | T4 | | | | |
| Enclosure type rating | None (open-style) | | | | |

Environmental Specifications - ControlLogix Standard Chassis

| Attribute | 1756-A4/B, 1756-A7/B, 1756-A10/B, 1756-A13/B, 1756-A17/B | 1756-A4/C, 1756-A7/C, 1756-A10/C, 1756-A13/C, 1756-A17/C |
|--|--|--|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | 0...60 °C (32...140 °F) | -25...+60 °C (-13...+140 °F) |
| Temperature, surrounding air | 60 °C (140 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...+85 °C (-40...+185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | 30 g |
| Emissions | IEC 61000-6-4 | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |

Certifications - ControlLogix Standard Chassis

| Certification ⁽¹⁾ | 1756-A4/B | 1756-A7/B, 1756-A10/B, 1756-A13/B, 1756-A17/B | 1756-A4/C, 1756-A7/C, 1756-A10/C, 1756-A13/C, 1756-A17/C |
|------------------------------|---|---|--|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. | | |
| CSA | CSA Certified Process Control Equipment. See CSA File 54689. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File 69960. | | |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations. | | |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) | | |
| RCM | Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions | | |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T5 Gc X | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc DEMKO13ATEX1325026X |
| IECEX | N/A | | IECEX System, compliant with: <ul style="list-style-type: none"> IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" IEC 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc IECEXUL14.0008X |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3 | | |
| EAC | Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation | | |

(1) See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

ControlLogix-XT Chassis Specifications

The ControlLogix-XT™ chassis support extreme temperature environments. The chassis are conformally coated for increased survivability in ISA G3 environments.

Technical Specifications - ControlLogix-XT Chassis

| Attribute | 1756-A4LXT/B | 1756-A7LXT/B | 1756-A5XT/B | 1756-A7XT/B | 1756-A7XT/C | 1756-A10XT/C |
|---|---|--|--|--|--|--------------|
| Backplane current, chassis/slot max @ 1.2V DC | 1.5 A/- | | | | | |
| Backplane current, chassis/slot max @ 3.3V DC | 4 A/4 A | | | | | |
| Backplane current, chassis/slot max @ 5.1V DC | 10 A/6 A | | | | 15 A/6 A | |
| Backplane current, chassis/slot max @ 24V DC | 2 A/2 A | | | | 2.8 A/2.8 A | |
| Power dissipation, max | 3.7 W | 4.1 W | 4.4 W | 4.5 W | 5.0 W | |
| Isolation voltage | Determined by installed power supply and modules | | | | | |
| Slots | 4 | 7 | 5 | 7 | 10 | |
| Mounting method | Horizontal only | | | | | |
| Cabinet size (HxWxD), min | 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.) | 50.8 x 60.9 x 20.3 cm (20 x 24 x 8 in.) | 50.8 x 76.2 x 20.3 cm (20 x 30 x 8 in.) | 50.8 x 60.9 x 20.3 cm (20 x 24 x 8 in.) | 50.8 x 85.75 x 20.3 cm (20 x 33.75 x 8 in.) | |
| Weight, approx | 0.75 kg (1.7 lb) | 1.1 kg (2.4 lb) | 1.45 kg (3.2 lb) | 1.09 kg (2.4 lb) | 1.91 kg (4.2 lb) | |
| Location | Panel | | | | | |
| Wire size | Functional earth ground - 8.3 mm ² (8 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater Protective earth ground - 2.1 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F) or greater | | | | | |
| North American temperature code | T5 | | | T4A | T4 | |
| IEC temperature code | T5 | | T4 | | | |
| Enclosure type rating | None (open-style) | | | | | |

Environmental Specifications - ControlLogix-XT Chassis

| Attribute | 1756-A4LXT/B, 1756-A7LXT/B | 1756-A5XT/B, 1756-A7XT/B | 1756-A7XT/C, 1756-A10XT/C |
|--|--|------------------------------|---------------------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | -25...+60 °C (-13...+140 °F) | -25...+70 °C (-13...+158 °F) | |
| Temperature, surrounding air | 60 °C (140 °F) | 70 °C (158 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...+85 °C (-40...+185 °F) | | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | 30 g | |
| Emissions | IEC 61000-6-4 | | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | | |

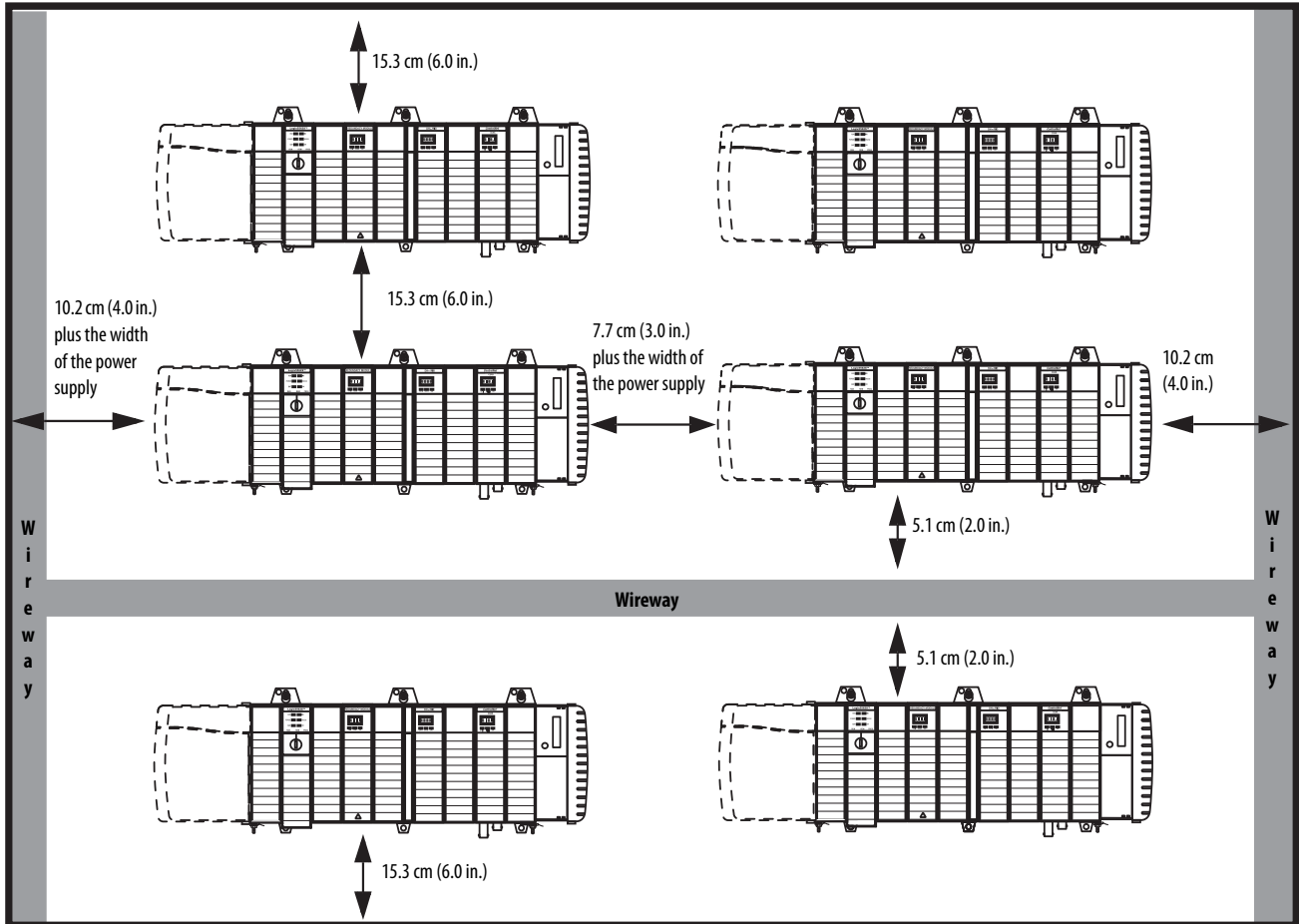
Certifications - ControlLogix-XT Chassis

| Certification ⁽¹⁾ | 1756-A4LXT/B, 1756-A7LXT/B | 1756-A5XT/B, 1756-A7XT/B, 1756-A7XT/C, 1756-A10XT/C |
|------------------------------|---|--|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. | |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations. | |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> • EN 61326-1; Meas./Control/Lab., Industrial Requirements • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) | |
| RCM | Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions | |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> • EN 60079-15; Potentially Explosive Atmospheres, Protection "n" • EN 60079-0; General Requirements • II 3 G Ex nA IICT4 Gc X • DEMKO13ATEX1325026X | |
| IECEx | IECEx System, compliant with: <ul style="list-style-type: none"> • IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" • IEC 60079-0; General Requirements • II 3 G Ex nA IICT5 Gc • IECExUL14.0008X | IECEx System, compliant with: <ul style="list-style-type: none"> • IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" • IEC 60079-0; General Requirements • II 3 G Ex nA IICT4 Gc • IECExUL14.0008X |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3 | |
| EAC | Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation | |

(1) See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

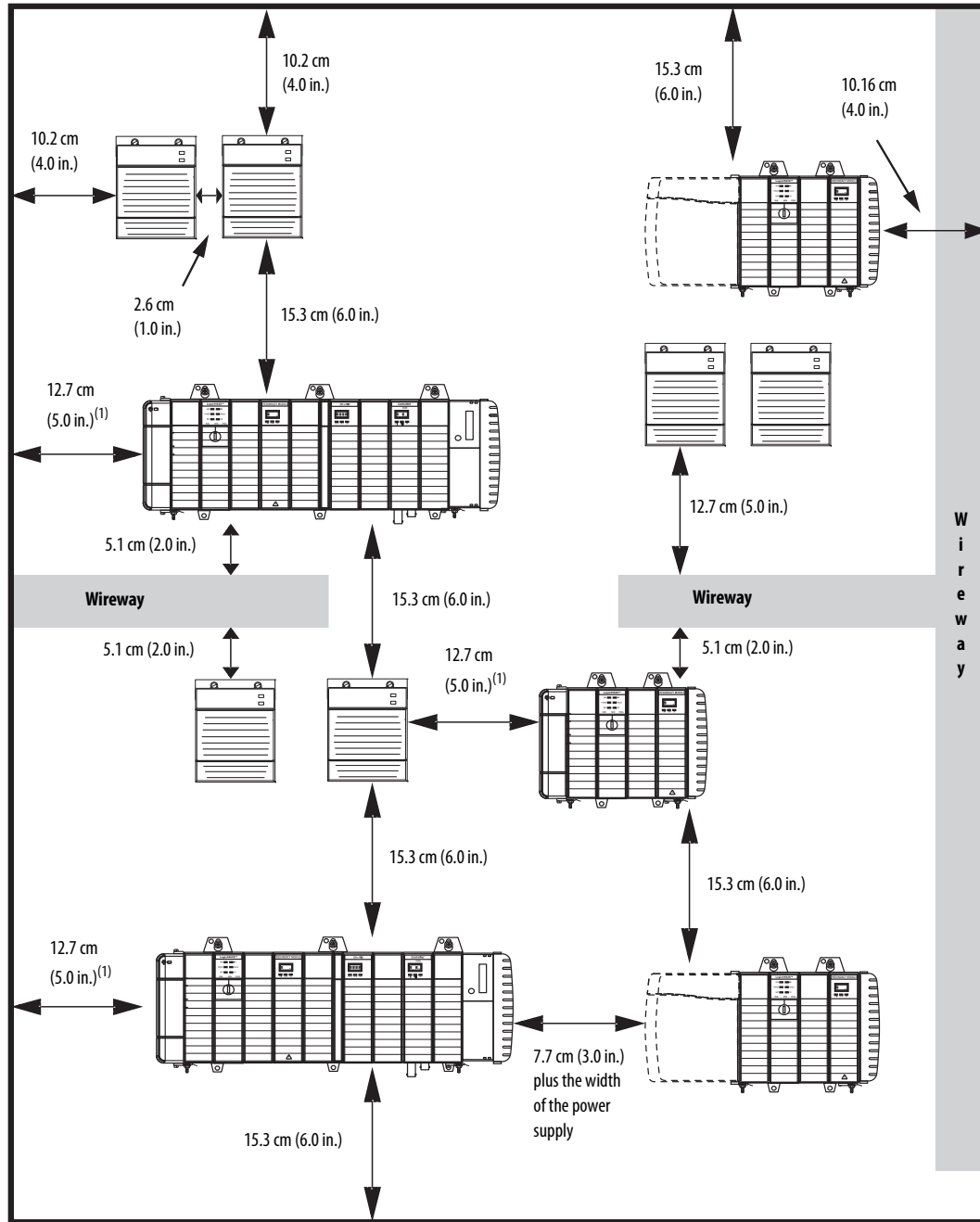
Spacing Requirements

When you mount a ControlLogix chassis with a standard power supply in an enclosure, follow these spacing requirements (series C chassis depicted).



IMPORTANT The 1756-CPR2 cable has a bend radius of 12.7 cm (5.0 in.). The chassis must have a minimum clearance of 12.7 cm (5.0 in.) on the left side to route and connect the 1756-CPR2 cable. The redundant power supplies must have a minimum clearance of 12.7 cm (5.0 in.) below the supply to route and connect the 1756-CPR2 cable.

When you mount a ControlLogix chassis with a redundant power supply and a chassis adapter in an enclosure, follow these spacing requirements (series C chassis depicted).



(1) The measurements for systems that use 1756-CPR2D or 1756-CPR2U cables are 10.2 cm (4.0 in.).

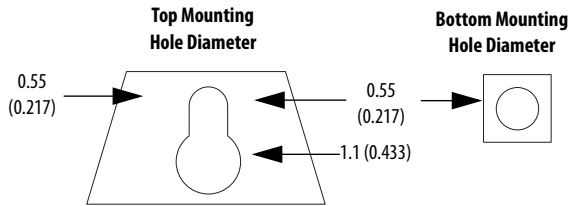
Series C chassis offer these features:

- Improved slot guidelines
- Improved ventilation
- Stronger mounting tabs
- Additional hole in mounting tab
- Additional ground screw

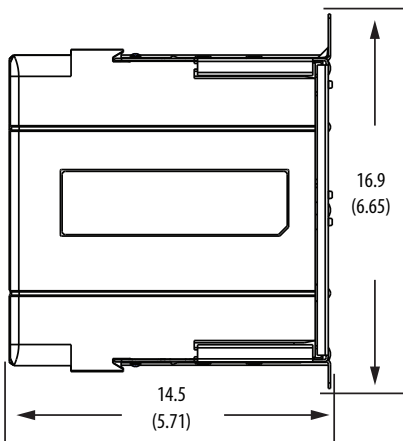
Series B ControlLogix Chassis with Standard and Slim Power Supply Mounting Dimensions

Dimensions are in cm (in.).

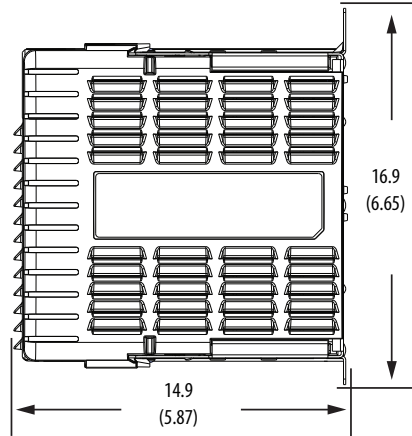
Chassis Common Dimensions



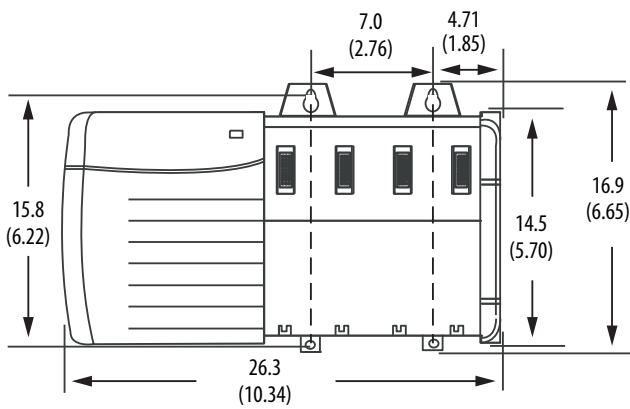
Right-side View of All Standard Chassis



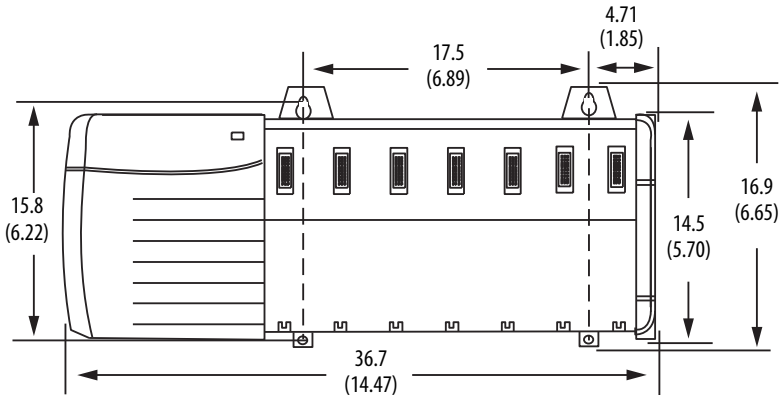
Right-side View of All ControlLogix-XT Chassis



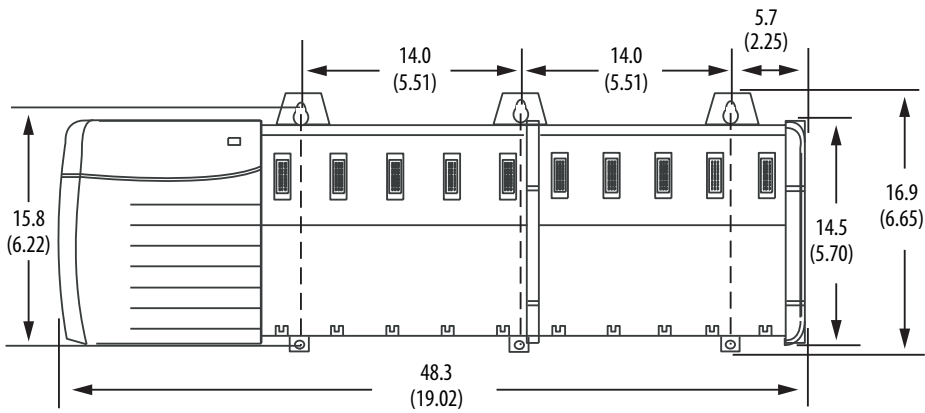
1756-A4/B Chassis and Power Supply



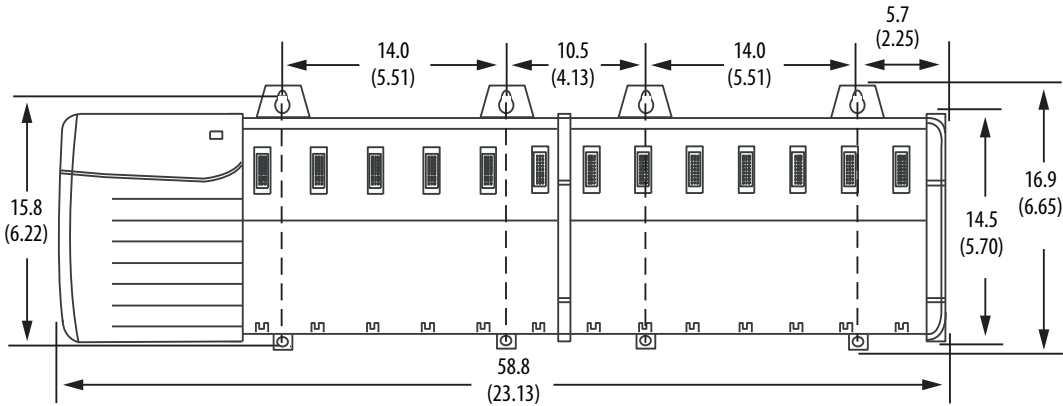
1756-A7/B Chassis and Power Supply



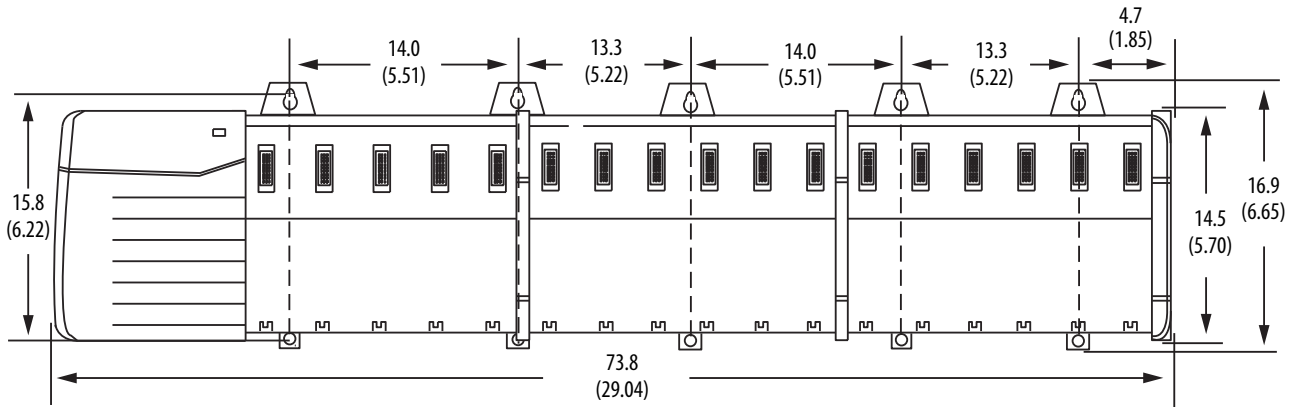
1756-A10/B Chassis and Power Supply



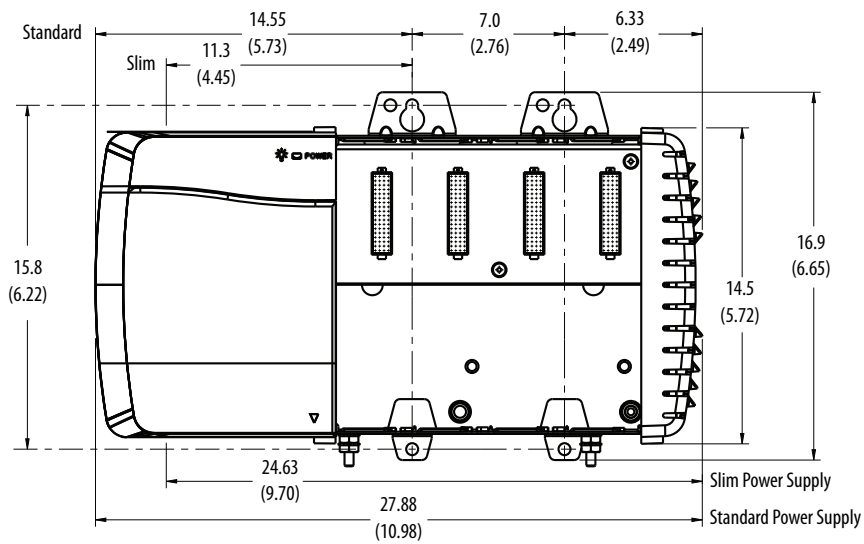
1756-A13/B Chassis and Power Supply



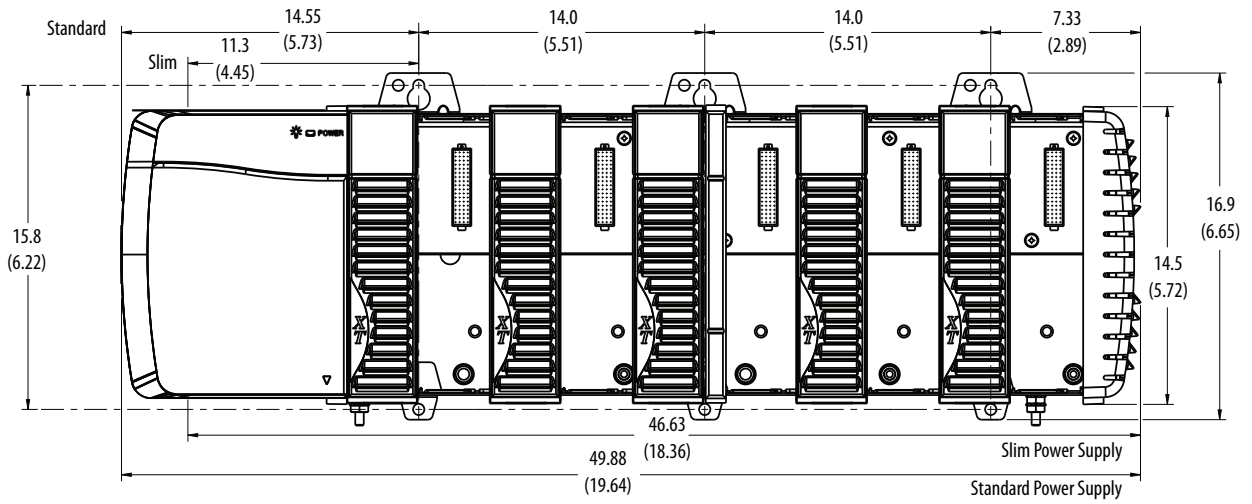
1756-A17/B Chassis and Power Supply



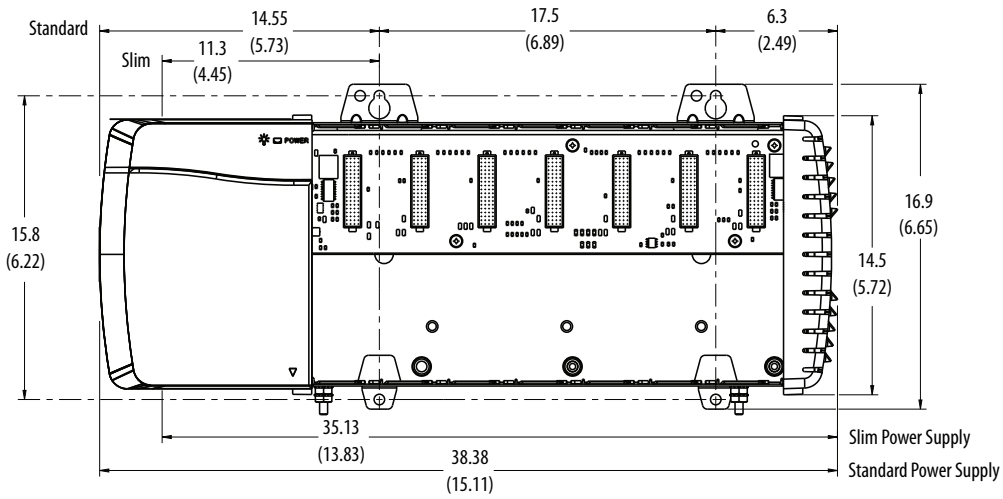
1756-A4LXT/B Chassis and Power Supply



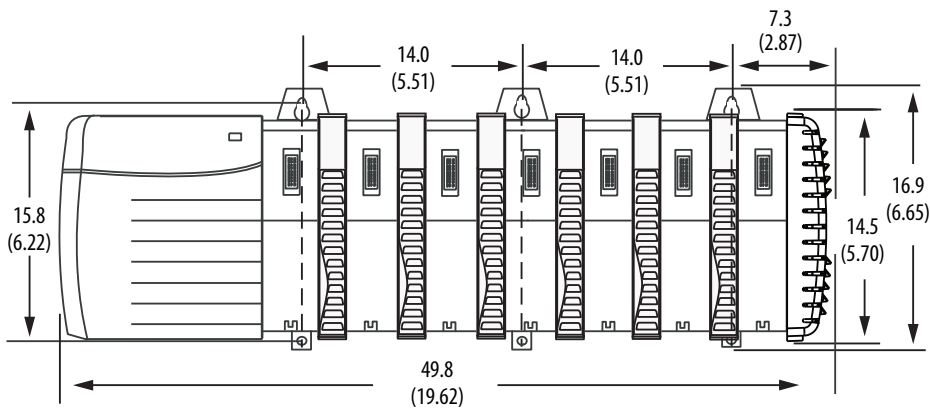
1756-A5XT/B Chassis and Power Supply



1756-A7LXT/B Chassis and Power Supply



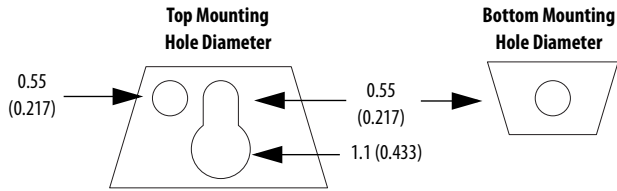
1756-A7XT/B Chassis and Power Supply



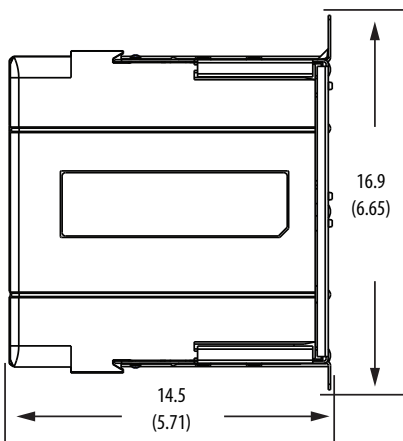
Series C ControlLogix Chassis with Standard and Slim Power Supply Mounting Dimensions

Dimensions are in cm (in.).

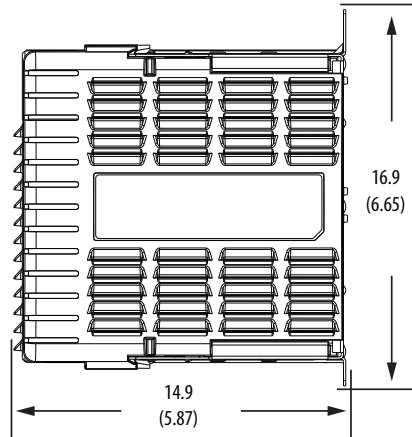
Chassis Common Dimensions



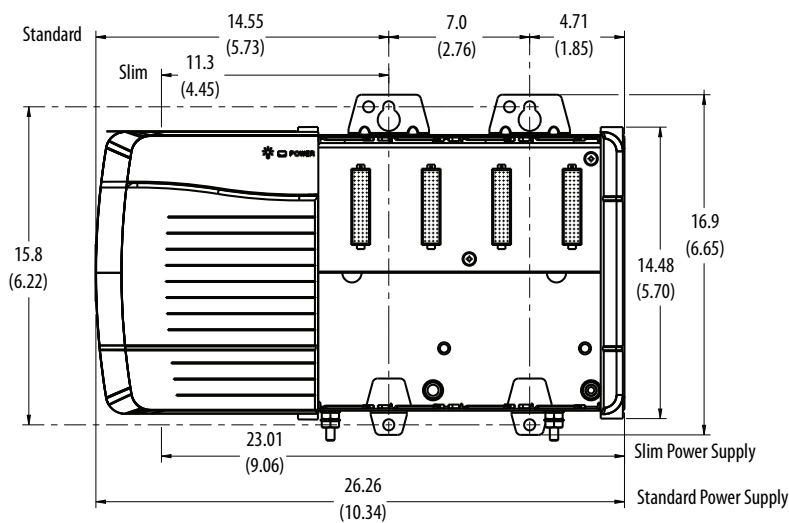
Right-side View of All Standard Chassis



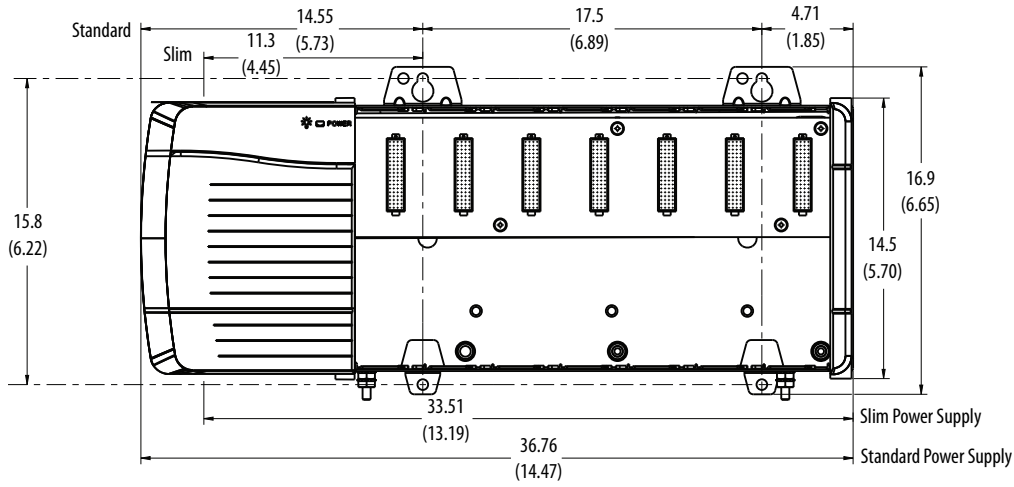
Right-side View of All ControlLogix-XT Chassis



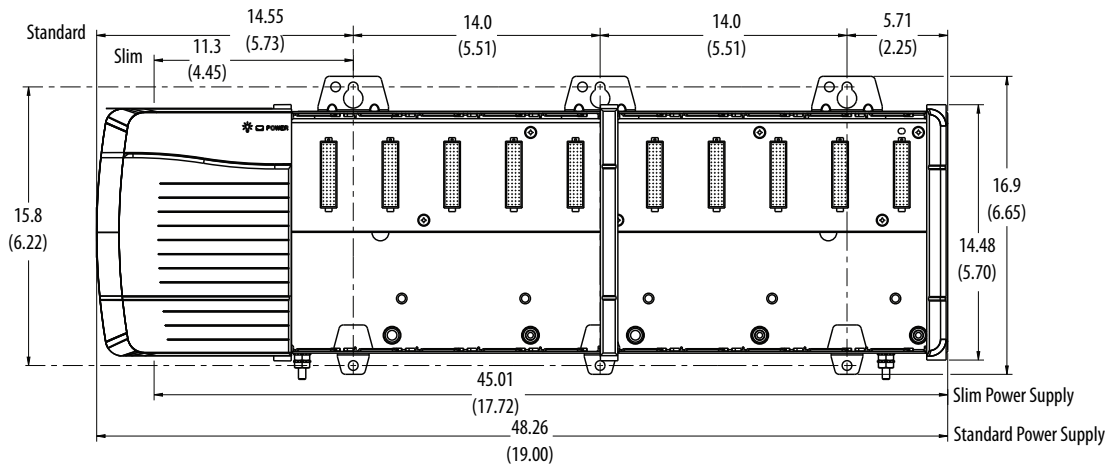
1756-A4/C Chassis and Power Supply



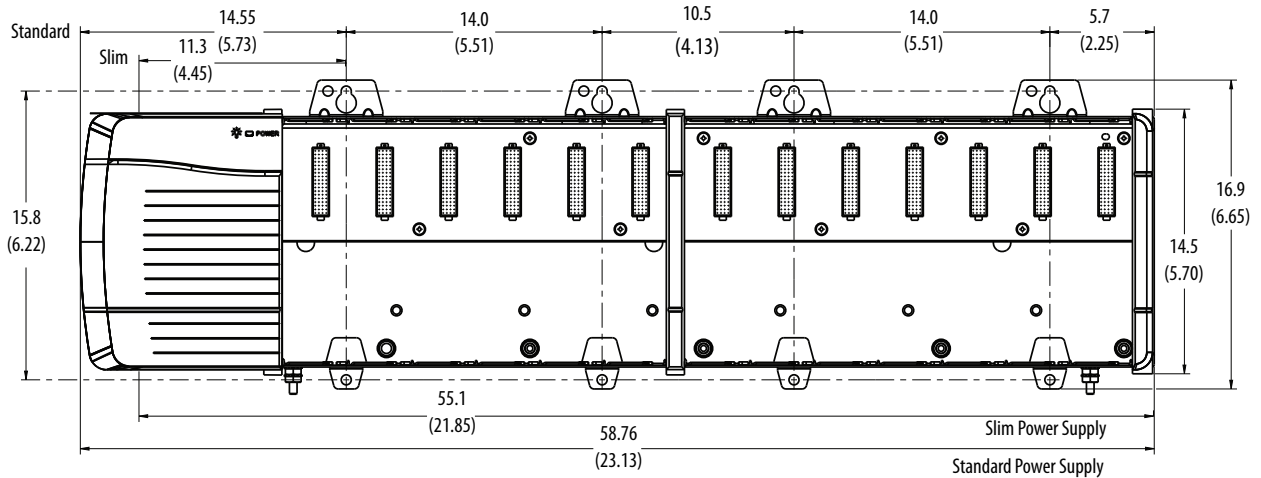
1756-A7/C Chassis and Power Supply



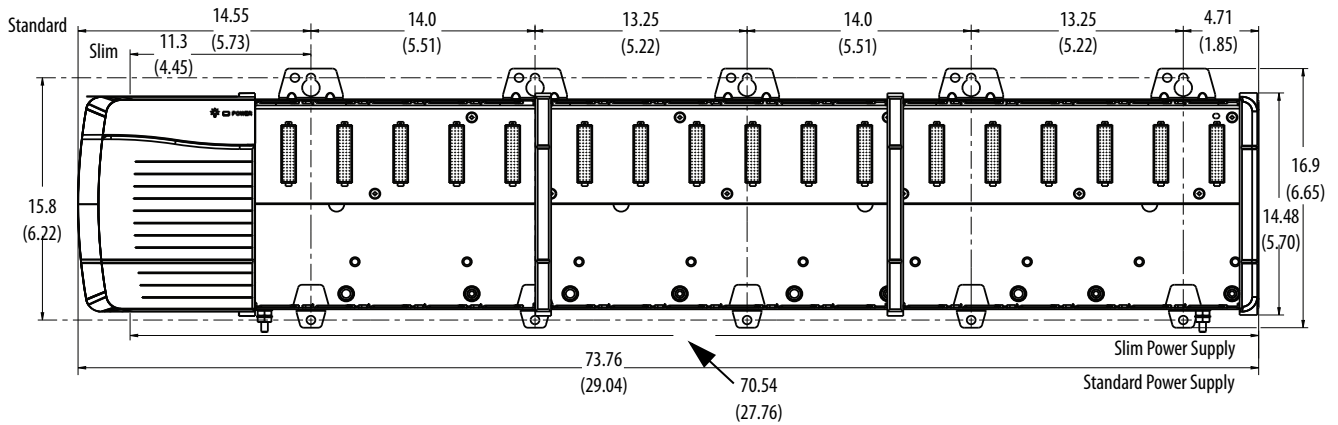
1756-A10/C Chassis and Power Supply



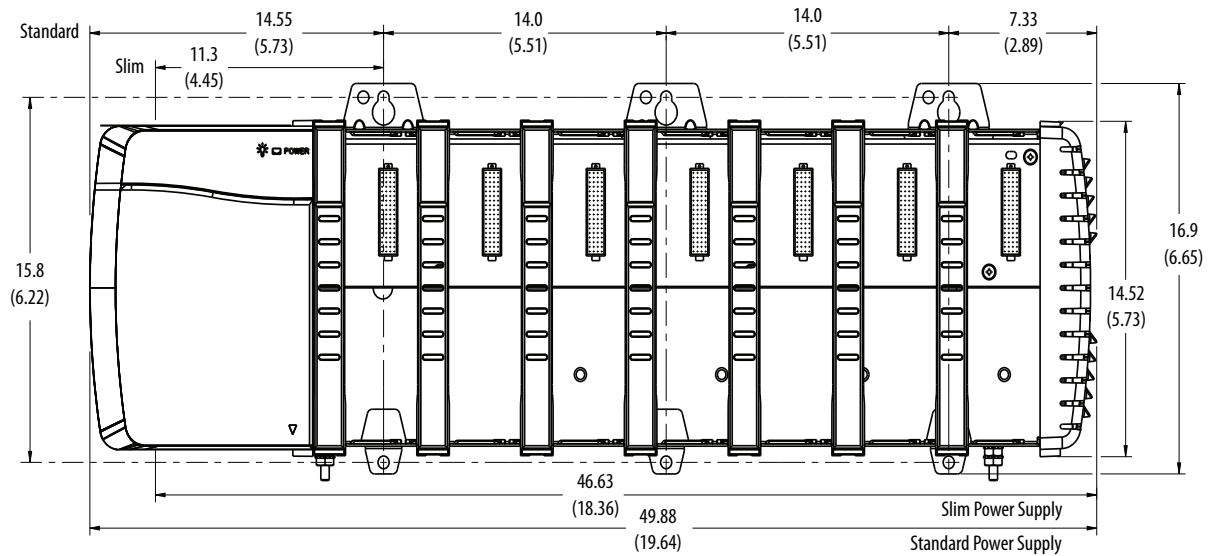
1756-A13/C Chassis and Power Supply



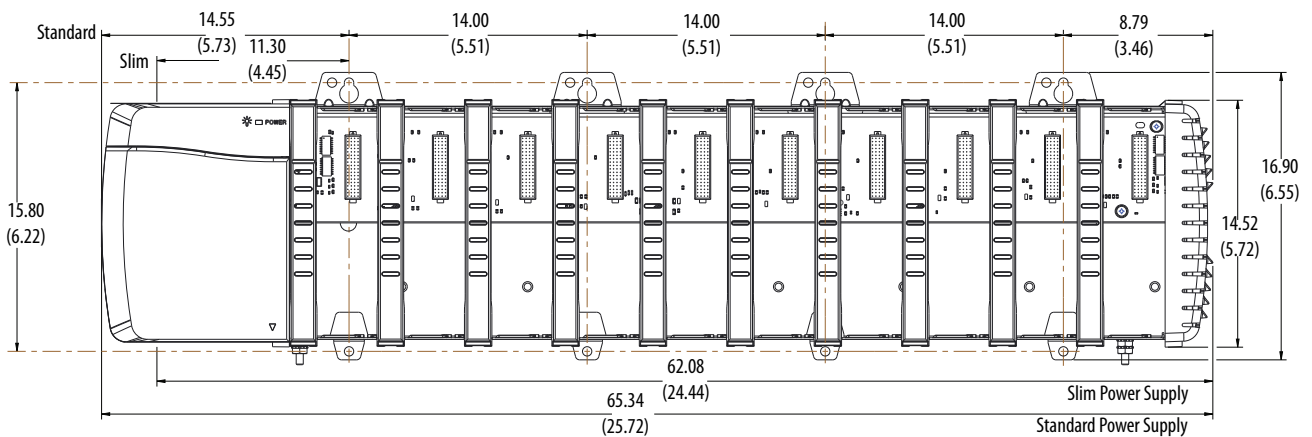
1756-A17/C Chassis and Power Supply



1756-A7XT/C Chassis and Power Supply



1756-A10XT Chassis and Power Supply

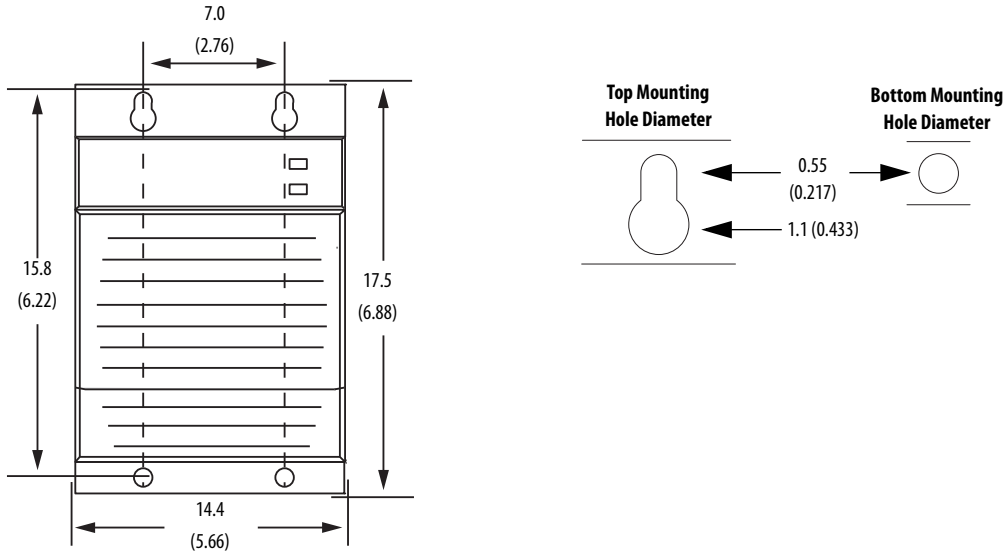


Series B ControlLogix Chassis with Redundant Power Supply Mounting Dimensions

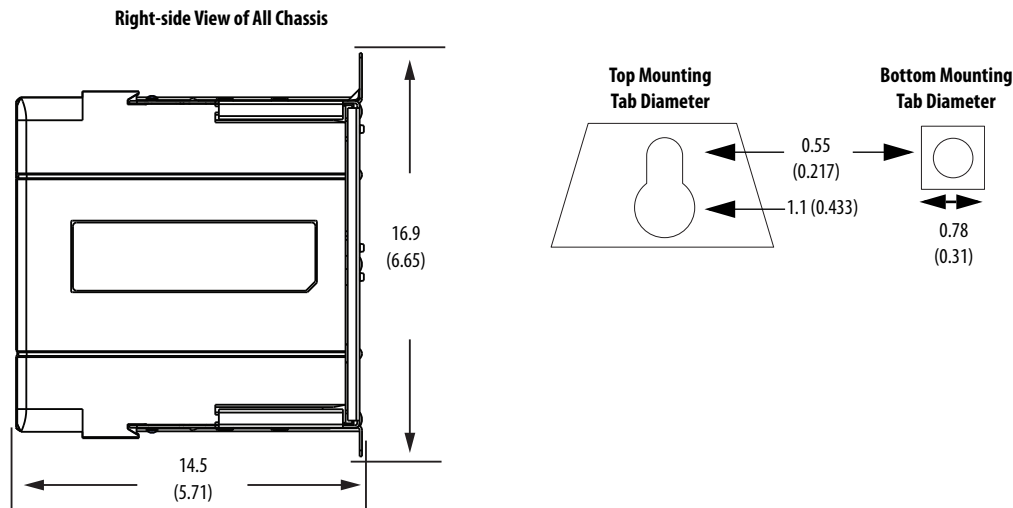
IMPORTANT The 1756-CPR2 cable has a bend radius of 12.7 cm (5.0 in.). The chassis must have a minimum clearance of 12.7 cm (5.0 in.) on the left side to route and connect the 1756-CPR2 cable. The redundant power supplies must have a minimum clearance of 12.7 cm (5.0 in.) below the supply to route and connect the 1756-CPR2 cable.

Dimensions are in cm (in.).

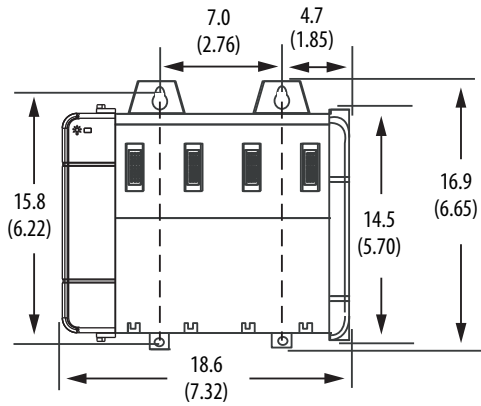
Redundant Power Supplies



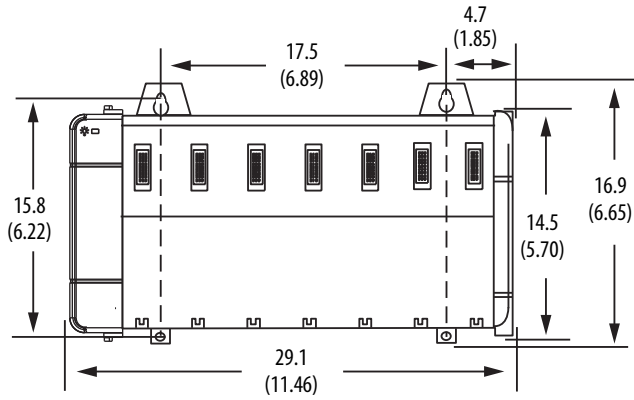
Chassis Common Dimensions



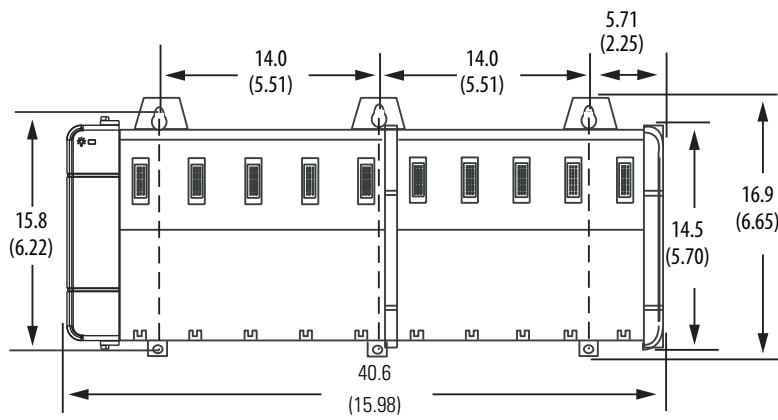
1756-A4/B Chassis and Chassis Adapter Module



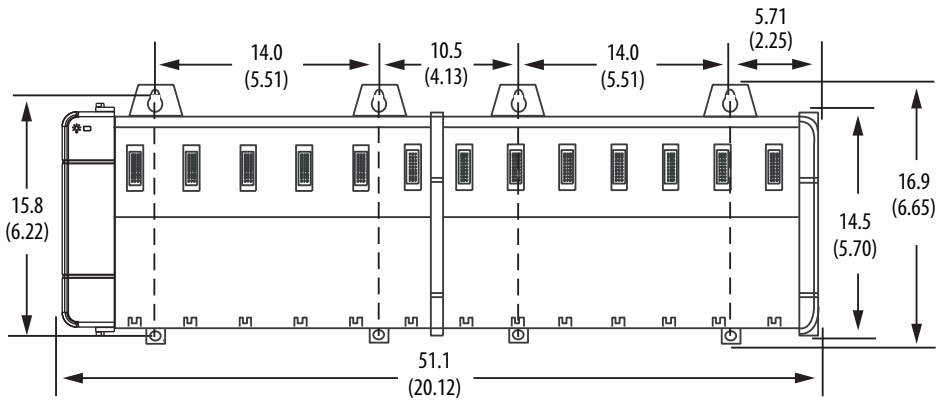
1756-A7/B Chassis and Chassis Adapter Module



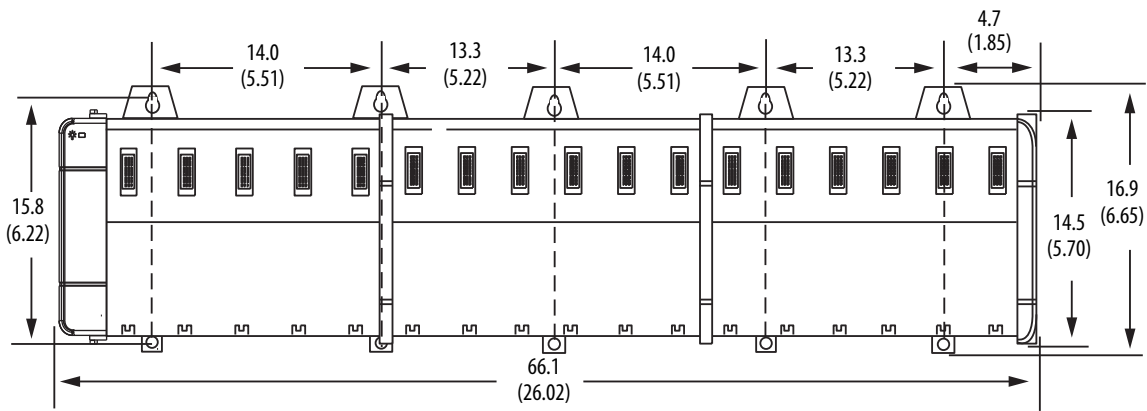
1756-A10/B Chassis and Chassis Adapter Module



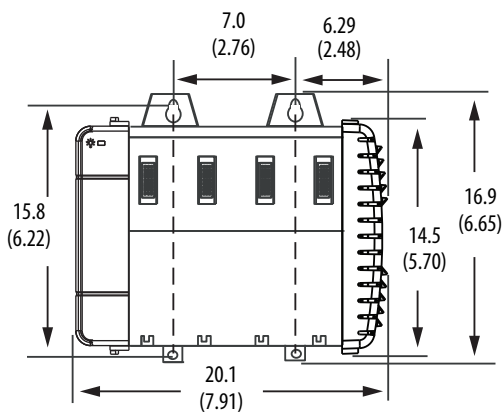
1756-A13/B Chassis and Chassis Adapter Module



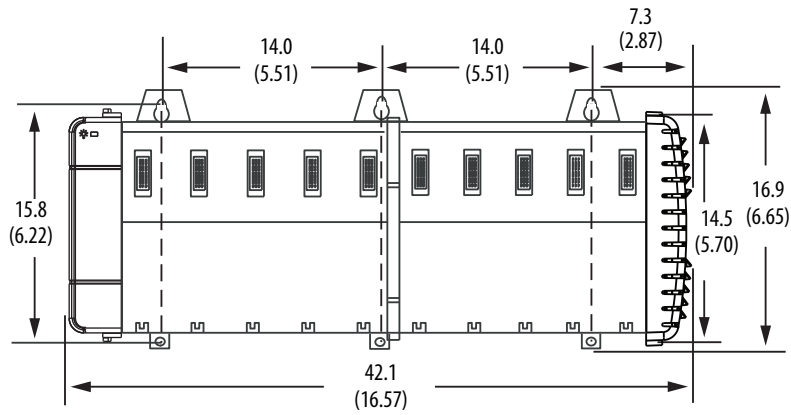
1756-A17/B Chassis and Chassis Adapter Module



1756-A4LXT/B Chassis and Chassis Adapter



1756-A5XT/A7XT/B Chassis and Chassis Adapter

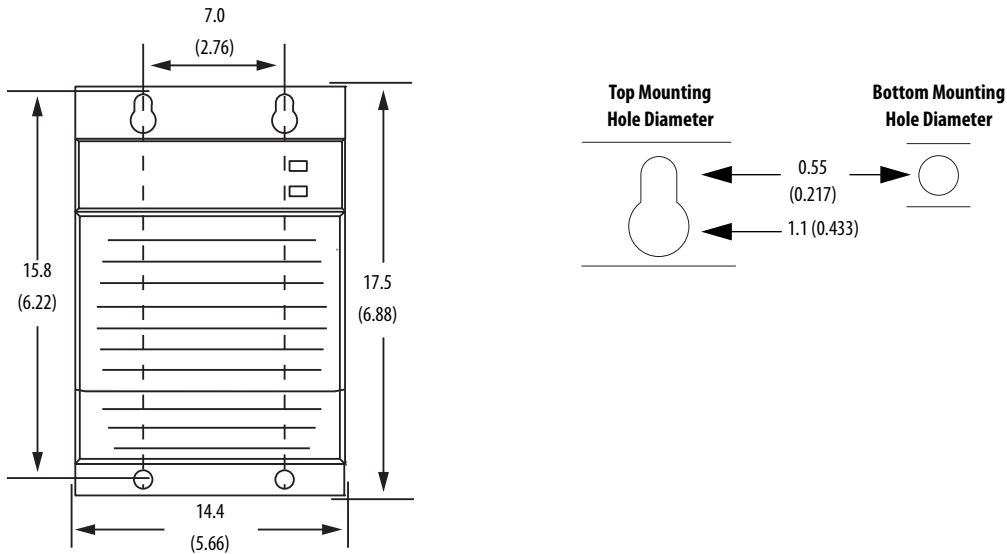


Series C ControlLogix Chassis with Redundant Power Supply Mounting Dimensions

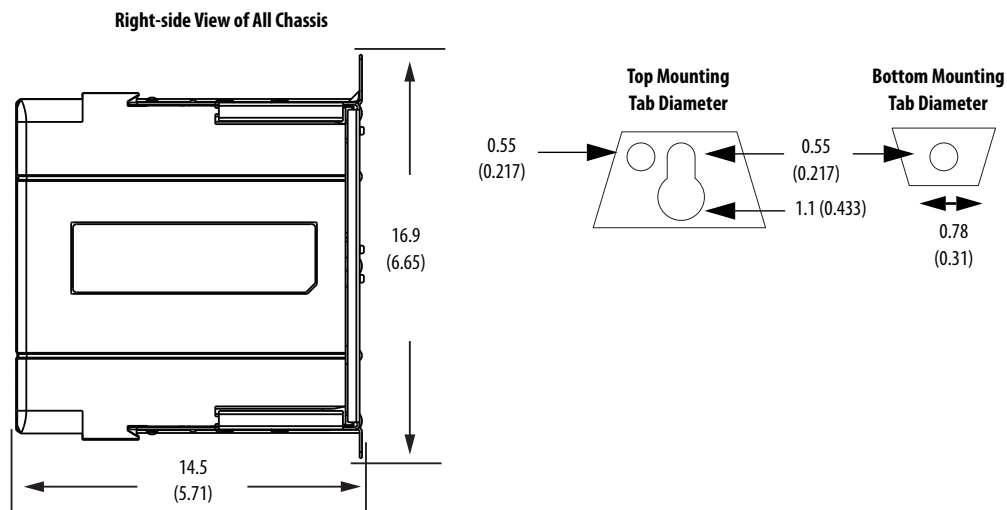
IMPORTANT The 1756-CPR2 cable has a bend radius of 12.7 cm (5.0 in.). The chassis must have a minimum clearance of 12.7 cm (5.0 in.) on the left side to route and connect the 1756-CPR2 cable. The redundant power supplies must have a minimum clearance of 12.7 cm (5.0 in.) below the supply to route and connect the 1756-CPR2 cable.

Dimensions are in cm (in.).

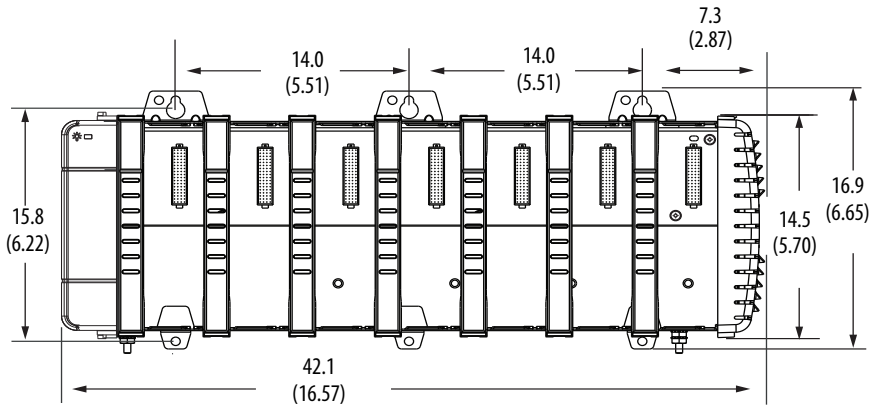
Redundant Power Supplies



Chassis Common Dimensions



1756-A7XT/C Chassis and Chassis Adapter



ControlLogix Chassis Accessories

Use a slot filler module to fill empty slots.

| Cat. No. | Description |
|-----------|---|
| 1756-N2 | Slot filler module for empty slots in standard ControlLogix chassis |
| 1756-N2XT | Slot filler module for empty slots in ControlLogix-XT chassis |

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

| Resource | Description |
|---|---|
| ControlLogix Selection Guide, publication 1756-SG001 | Provides an overview of the ControlLogix system and its products. |
| ControlLogix Power Supplies Specifications Technical Data, publication 1756-TD005 | Provides technical specifications for ControlLogix power supplies. |
| ControlLogix System User Manual, publication 1756-UM001 | Provides information on how to install, configure, program, and use ControlLogix controllers. |
| Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 | Provides general guidelines for installing a Rockwell Automation® industrial system. |
| Product Certifications website, http://www.ab.com | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley® distributor or Rockwell Automation sales representative.

Notes:

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Rockwell Automation Support

Use the following resources to access support information.

| | | |
|---|---|--|
| Technical Support Center | Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates. | www.rockwellautomation.com/knowledgebase |
| Local Technical Support Phone Numbers | Locate the phone number for your country. | www.rockwellautomation.com/global/support/get-support-now.page |
| Direct Dial Codes | Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer. | www.rockwellautomation.com/global/support/direct-dial.page |
| Literature Library | Installation Instructions, Manuals, Brochures, and Technical Data. | www.rockwellautomation.com/literature |
| Product Compatibility and Download Center (PCDC) | Get help determining how products interact, check features and capabilities, and find associated firmware. | www.rockwellautomation.com/global/support/pcdc.page |

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf.

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1756-TD006F-EN-E - March 2017

Supersedes Publication 1756-TD006E-EN-E - October 2014

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