



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

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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/en/e-tools/drawings.html>.

Table 4 - 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
IECEX	N/A		IECEX System, compliant with: • 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.

Table 5 - Technical Specifications - ControlLogix-XT Chassis

Attribute	1756-A4LXT/B	1756-A7LXT/B	1756-A5XT/B	1756-A7XT/B	1756-A7XT/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	10 A/6 A
Backplane current, chassis/slot max @ 24V DC	2 A/2 A			2.8 A/ 2.8A	2 A/2 A
Power dissipation, max	3.7 W	4.1 W	4.4 W		
Isolation voltage	Determined by installed power supply and modules				
Slots	4	7	5	7	
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.)	
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)	
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)				

Table 6 - Environmental Specifications - ControlLogix-XT Chassis

Attribute	1756-A4LXT/B, 1756-A7LXT/B	1756-A5XT/B, 1756-A7XT/B	1756-A7XT/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		

Table 7 - Certifications - ControlLogix-XT Chassis

Certification ⁽¹⁾	1756-A5XT/B, 1756-A7XT/B, 1756-A7XT/C	1756-A4LXT/B, 1756-A7LXT/B
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: - 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: - EN 60079-15; Potentially Explosive Atmospheres, Protection "n" - EN 60079-0; General Requirements - II 3 G Ex nA IIC T4 Gc X - DEMKO13ATEX1325026X	
IECEx	IECEx System, compliant with: - IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" - IEC 60079-0; General Requirements - II 3 G Ex nA IIC T4 Gc - IECExUL14.0008X	IECEx System, compliant with: - IEC 60079-15; Potentially Explosive Atmospheres, Protection "n" - IEC 60079-0; General Requirements - II 3 G Ex nA IIC T5 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.

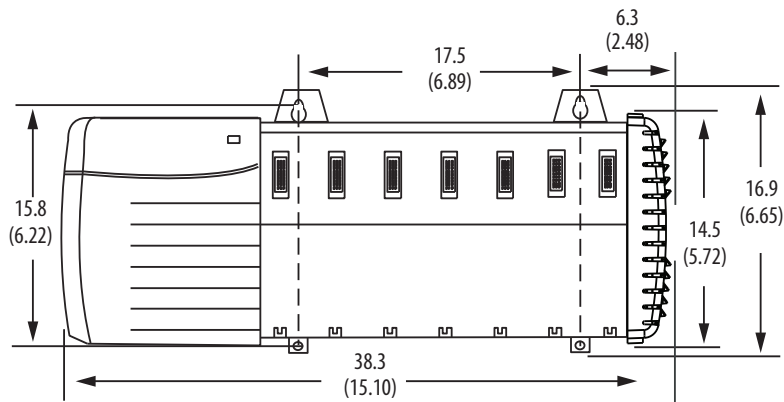
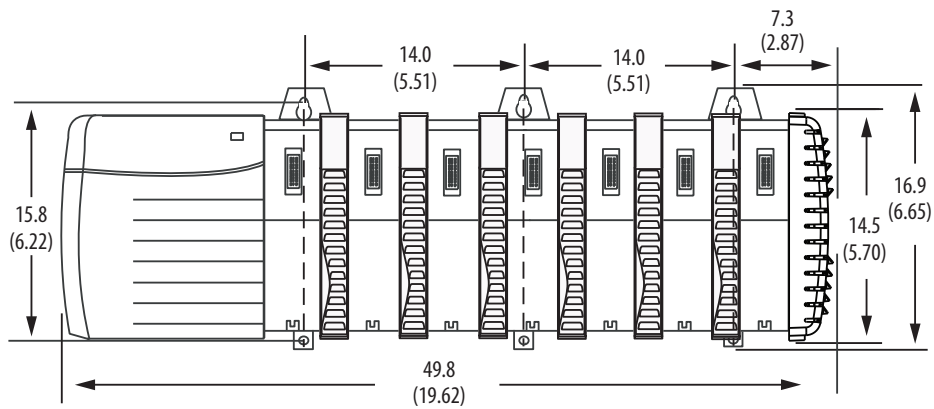
Figure 9 - 1756-A7LXT/B Chassis and Power Supply**Figure 10 - 1756-A7XT/B Chassis and Power Supply**

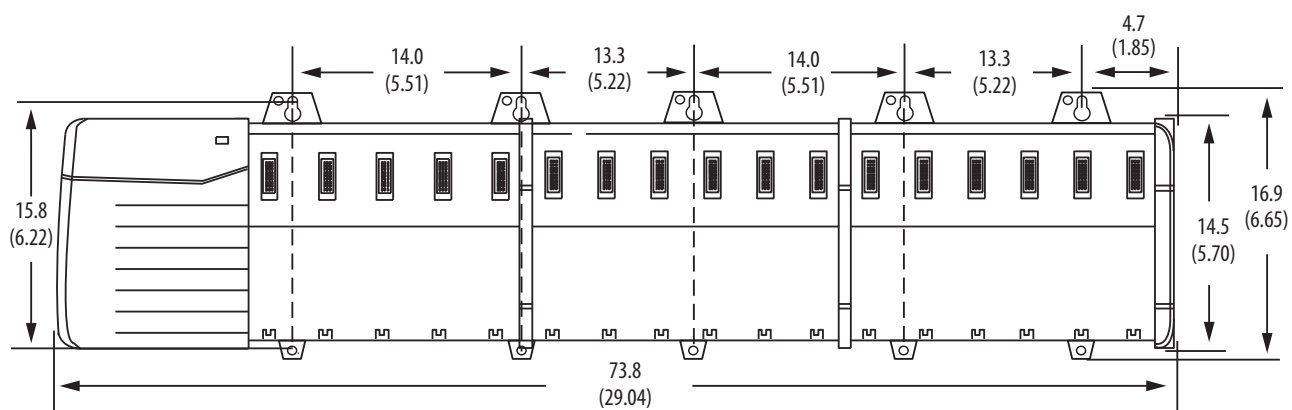
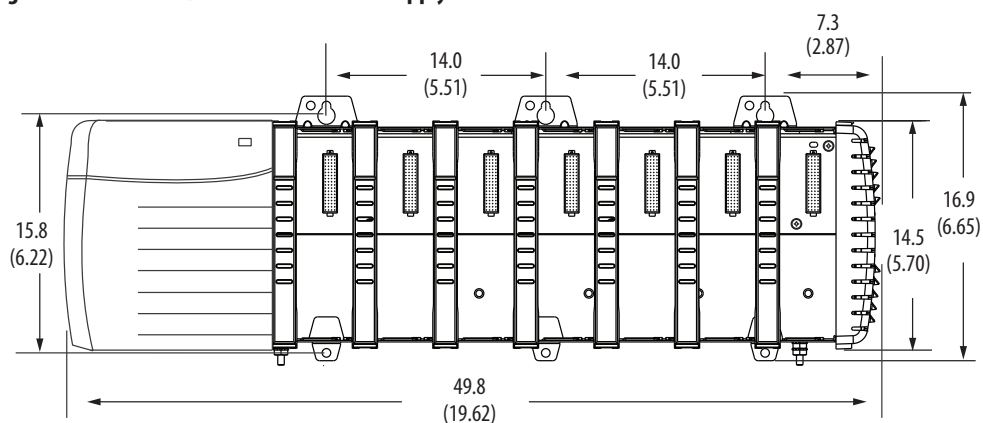
Figure 16 - 1756-A17/C Chassis and Power Supply**Figure 17 - 1756-A7XT/C Chassis and Power Supply**

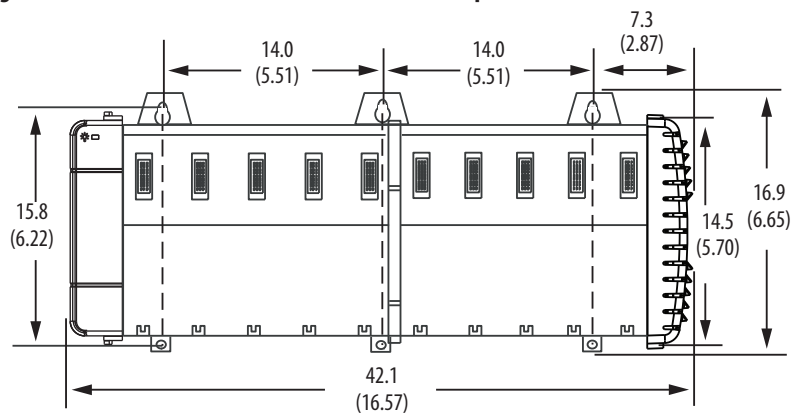
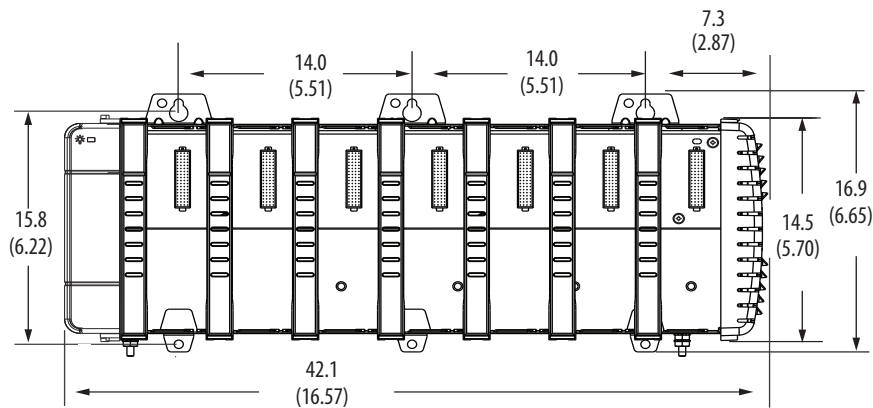
Figure 26 - 1756-A5XT/A7XT/B Chassis and Chassis Adapter

Figure 29 - 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