



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-A7XT/C, 1756-A7ZXT, 1756-A10/B, 1756-A10K/B, 1756-A10/C, 1756-A10K/C, 1756-A10XT/C, 1756-A10ZXT, 1756-A13/B, 1756-A13K/B, 1756-A13/C, 1756-A13K/C, 1756-A17/B, 1756-A17K/B, 1756-A17/C, 1756-A17K/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.

Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Corrected Minimum Cabinet Size Technical Specifications	2, 4
Corrected Cabinet Clearance Spacing Requirements	6, 7
Added 1756-A7ZXT and 1756-A10ZXT chassis information	Throughout

Standard ControlLogix Chassis Specifications

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

Technical Specifications - ControlLogix Standard Chassis

Attribute	1756-A4, 1756-A4K	1756-A7, 1756-A7K	1756-A10, 1756-A10K	1756-A13, 1756-A13K	1756-A17, 1756-A17K
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 61.0 x 20.3 cm (20 x 24 x 8 in.)	50.8 x 71.1 x 20.3 cm (20 x 28 x 8 in.)	50.8 x 81.3 x 20.3 cm (20 x 32 x 8 in.)	50.8 x 96.5 x 20.3 cm (20 x 38 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 (Series B) T4 (Series C)				
IEC temperature code	T4	T5 (Series B) T4 (Series C)			
Enclosure type rating	None (open-style)				

Environmental Specifications - ControlLogix Standard Chassis

Attribute	Series B		Series C	
	1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17	1756-A4K, 1756-A7K, 1756-A10K, 1756-A13K, 1756-A17K	1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17	1756-A4K, 1756-A7K, 1756-A10K, 1756-A13K, 1756-A17K
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 max	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			
Conformal Coated	-	Yes	-	Yes
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⁾	Series B		Series C
	1756-A4, 1756-A4K	1756-A7, 1756-A7K, 1756-A10, 1756-A10K, 1756-A13, 1756-A13K, 1756-A17, 1756-A17K	1756-A4, 1756-A4K, 1756-A7, 1756-A7K, 1756-A10, 1756-A10K, 1756-A13, 1756-A13K, 1756-A17, 1756-A17K
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 2014/30/EU EMC Directive (EMC), 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 2014/34/EU Directive, compliant with: <ul style="list-style-type: none"> EN 60079-7; Potentially Explosive Atmospheres, Protection "e" EN 60079-0; General Requirements II 3 G Ex ec IIC T4 Gc UL22ATEX2734X
IECEX	-		IECEX System, compliant with: <ul style="list-style-type: none"> IEC 60079-7; Potentially Explosive Atmospheres, Protection "e" IEC 60079-0; General Requirements II 3 G ec IIC T4 Gc IECEXUL22.0025X
UKEx	In conformity with the following UKEx Statutory Instruments and their amendments: <ul style="list-style-type: none"> Schedule 1 of the UKEx Regulation 2016 No. 1107 Equipment protection by increased safety "e", reference certificate number UL22UKEX2451X Zone 2 classification according to UKEx Regulation 2016 No. 1107 		
UKCA	In conformity with the following UK Statutory Instruments and their amendments: <ul style="list-style-type: none"> 2016 No. 1091, Electromagnetic Compatibility Regulations 2016 No. 1107, Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2012 No. 3032, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 		
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3		
CCC	CCC 202012230911998 CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products		
Morocco	In conformity with the following regulations: <ul style="list-style-type: none"> Arrêté ministériel n° 6404-15 du 1^{er} muharram 1437 (15 octobre 2015) Équipements électriques destinés à être utilisés sous certaines limites de tension Arrêté ministériel n° 6404-15 du 29 ramadan 1436 (16 juillet 2015) Compatibilité électromagnétique des équipements 		

(1) See the Product Certification website at rok.auto/certifications for Declarations of Conformity, Certificates, and other certification details.

1756-A17/B Chassis and Power Supply

