

ControlLogix Memory Board Specifications - 1756-M1, 1756-M2, 1756-M3, 1756-M12, 1756-M13, 1756-M14, 1756-M16, 1756-M22, 1756-M23, and 1756-M24

Attribute	Value
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): <ul style="list-style-type: none"> 0 ... 60 °C (32...140 °F)
Temperature, storage	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): <ul style="list-style-type: none"> 5...95% noncondensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): <ul style="list-style-type: none"> 2 g @ 10...500 Hz
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): <ul style="list-style-type: none"> 30 g
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): <ul style="list-style-type: none"> 50 g
Emissions	CISPR 11: <ul style="list-style-type: none"> Group 1, Class A
ESD immunity	IEC 61000-4-2: <ul style="list-style-type: none"> 6 kV indirect contact discharge 8 kV air discharge
Radiated RF immunity	IEC 61000-4-3: <ul style="list-style-type: none"> 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 1V/m with 1 kHz line-wave 80% AM from 2.0...2.7 GHz
Enclosure type rating	None, open style
North American temperature code	T4A
IEC temperature code	T4
Intrinsically safe	No

Certifications - ControlLogix Memory Board⁽¹⁾

Cat. No.	Certification	Description
1756-M1, 1756-M2	ULR	UL Recognized Component Industrial Control Equipment. See UL File E65584.
1756-M3 1756-M12 1756-M13 1756-M14	CSA	CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C.
1756-M16 1756-M22 1756-M23 1756-M24	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)
	C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
	Ex	European Union 94/9/EC ATEX Directive, compliant with: EN 60079-15; Potentially Explosive Atmospheres, Protection "n" (Zone 2)

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

Certifications - 1784-CF64 and 1784-CF128 Industrial CompactFlash Card⁽¹⁾

Certification	Description
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)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

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