

Stratix 2000 Ethernet Unmanaged Switches

Technical Specifications - Stratix 2000 Switches

Attribute	1783-US03T01F	1783-US06T01F	1783-US05T	1783-US08T	1783-US8T
Description	Stratix 2000™ unmanaged switch • 3 copper ports • 1 fiber port	Stratix 2000 unmanaged switch • 6 copper ports • 1 fiber port	Stratix 2000 unmanaged switch • 5 copper ports	Stratix 2000 unmanaged switch • 8 copper ports	Stratix 2000 unmanaged switch • 8 copper ports
Inrush current, max	2.2 A				
Power supply voltage	20V AC (10...24V AC) 24V DC (10...35V DC)				24V (18...60V DC, 18...30V AC 50/60 Hz), 361 mA, Class 2/SELV
Isolation voltage	30V (continuous), basic insulation type, power to network channels No isolation between individual network channels Type tested at 500V AC for 60 s				
Power consumption, max	4 W (6VA) Current 400 mA @10V DC				4.04 W @ 24V AC/DC
Ethernet connections	RJ45 connector according to IEC 60603-7, 2- or 4-pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 24702				
DC power connections	1.5...2.5 mm ² (16...14 AWG) solid or stranded copper wire rated at 75 °C (167 °F) or greater 1.2 mm (3/64 in.) insulation max				0.75...2.5 mm ² (18...14 AWG) twisted-pair copper wire suitable for 30 °C (86 °F) above surrounding ambient temperature outside the enclosure. Functional Earth connection: 2.5 mm ² (14 AWG) copper wire suitable for 86 °F (30 °C) above surrounding ambient temperature outside the enclosure, with a suitable ring terminal.
Torque, max recommended	0.8 N•m (7 lb•in) on power connectors				1.82 N•m (16 lb•in) on power /functional earth connector
Wiring category ⁽¹⁾	2 - on power ports 2 - on communication ports				1 - on power ports 2 - on communication ports
Enclosure type rating	None (open-style)				
North American temp code	T4				T5
IEC temp code	T4				T5

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Technical Specifications - Stratix 2000 Fiber Connections

Attribute	1783-US03T01F, 1783-US06T01F
Ethernet data rate	100 Mbps
Connecting mode	Full duplex
Optical wavelength	1310 nm
Optical cable length, max	Graded index multimode fiber; 2000 m
Optical link budget	8 db with 62.5/125 μ m multimode cable 4 db with 50/125 μ m multimode cable
Connector type	IEC 61754-20 LC connector
Fiber connections	Glass 62.5/125 μ m and 50/125 μ m multimode fiber Simplex or duplex Jacket type and jacket diameter is dependent on connector selection Graded Index (GI) fiber Per IEC 60794-1-1, IEC 60793-2-10 category A1 fibers

Environmental Specifications - Stratix 2000 Switches

Attribute	1783-US06T01F	1783-US03T01F, 1783-US05T, 1783-US08T	1783-US8T
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)		
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		
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz		
Operating shock IEC 60068-2-27 (Test Ea, Unpackaged Shock)	15 g		
Nonoperating shock IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g		
Emissions CISPR11 (IEC 61000-6-4)	Class A		
ESD immunity IEC 61000-4-2	4 kV contact discharges 8 kV air discharges	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 at 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 1V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz		10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz

Environmental Specifications - Stratix 2000 Switches

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EFT/B immunity IEC 61000-4-4	±2 kV at 5 kHz on power ports ±2 kV at 5 kHz on communication ports		±4 kV at 5 kHz on power ports ±3 kV at 5 kHz on communication ports
Surge transient immunity IEC 61000-4-5	±1 kV line-line (DM) and ±2 kV line-earth (CM) on DC power ports ±2 kV line-earth (CM) on communication port		±2 kV line-line (DM) and ±4 kV line-earth (CM) on DC power ports ±2 kV line-earth (CM) on communication port
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz . . . 80 MHz		
Magnetic field immunity IEC 61000-4-8	—		30 A/m long duration and 300 A/m short duration at 50 Hz
Magnetic pulse immunity IEC 61000-4-9	—		30 A/m pulse

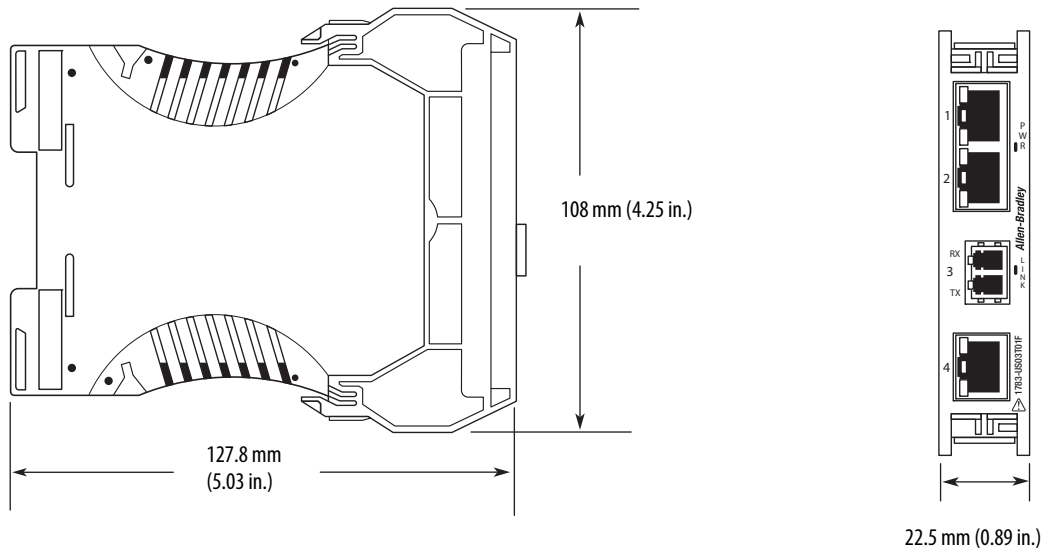
Certifications- Stratix 2000 Switches

Certifications (when product is marked) ⁽¹⁾	1783-US03T01F, 1783-US06T01F, 1783-US05T, 1783-US08T	1783-US8T
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.	
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)	
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” • EN 60079-0; General Requirements II 3 G Ex nA IIC T5X Gc	
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: • Article 58-2 of Radio Waves Act, Clause 3	

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

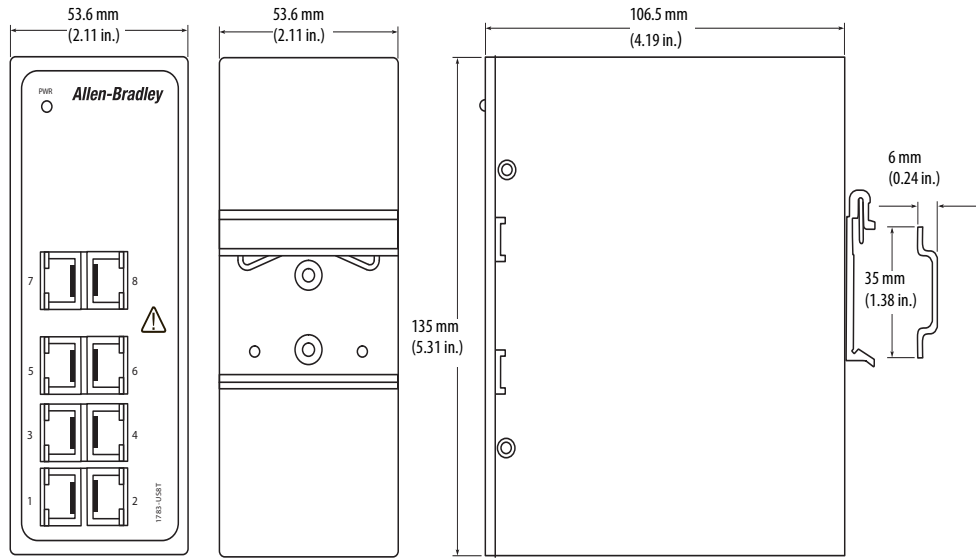
Dimensions - Stratix 2000 Switches

1783-US03T01F and 1783-US05T Switch Dimensions



The 1783-US06T01F and 1783-US08T switches have the same depth and height as the switches above, but they are 45 mm (1.77 in.) wide.

1783-US8T Switch Dimensions



32312-M