

Stratix 2000 Ethernet Unmanaged Switches

Technical Specifications - Stratix 2000 Switches

Attribute	1783-US03T01F	1783-US06T01F	1783-US05T	1783-US08T
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
Inrush current, max	2.2 A			
AC power-supply voltage rating	20V AC (10...24V AC)			
DC power-supply voltage rating	24V DC (10...35V DC)			
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 (6 VA) Current 400 mA at 10V 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			
Torque, max recommended	0.8 N·m (7 lb·in) on power connectors			
Wiring category ⁽¹⁾	2 - on power ports 2 - on communication ports			
Enclosure type rating	None (open-style) Meets IP20			
North American temp code	T4			
IEC temp code	T4			

(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 µm multimode cable 4 db with 50/125 µm multimode cable
Connector type	IEC 61754-20 LC connector
Fiber connections	Glass 62.5/125 µm and 50/125 µm 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

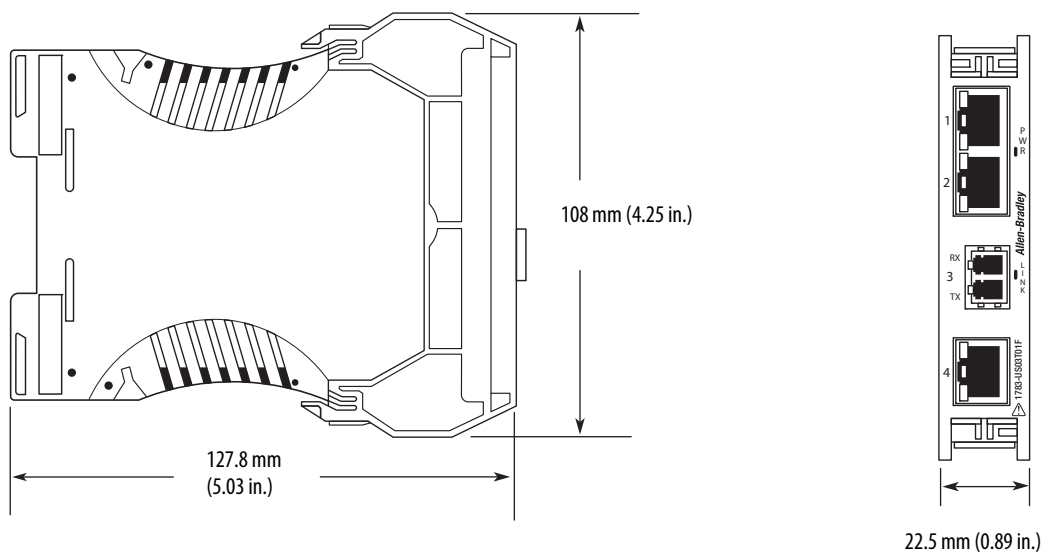
Environmental Specifications - Stratix 2000 Switches

Attribute	1783-US06T01F	1783-US03T01F, 1783-US05T, 1783-US08T
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 CISPR 11	Group 1, 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	
EFT/B immunity IEC 61000-4-4	±2 kV at 5 kHz on power ports ±2 kV at 5 kHz on Ethernet 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 shielded Ethernet port	
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz	

Certifications- Stratix 2000 Switches

Certifications (when product is marked)⁽¹⁾	1783-US03T01F, 1783-US06T01F, 1783-US05T, 1783-US08T
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 II T4 X
KC	Korean Certification of Broadcasting and Communications Equipment, compliant with: • Framework Act on Telecommunications and Radio Waves Act
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

(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.