

Stratix Ethernet Device Specifications Technical Data

Stratix 2100 Ethernet Unmanaged Switches

Table 9 - Stratix 2100 Port Specifications

Catalog Number	FE Ports	GE Ports	100 Mbit/s SFP Ports	100/1000 Mbit/s SFP Ports	PoE GE Ports	Port Details	Description
1783-USP5T	5	—	—	—	—	1...5: RJ45 Ports	10/100BaseT(X)
1783-USP8T	8	—	—	—	—	1...8: RJ45 Ports	10/100BaseT(X)
1783-UB8TG, 1783-USP8TGK	—	8	—	—	—	1...5: RJ45 Ports	10/100/1000BaseT(X)
1783-USP16T	16	—	—	—	—	1...16: RJ45 Ports	10/100BaseT(X)
1783-USP16TG, 1783-USP16TGK	—	16	—	—	—	1...6: RJ45 Ports	10/100/1000BaseT(X) Port
1783-USP5TG, 1783-USP5TGK	—	5	—	—	—	G1...G5: RJ45 Ports	10/100/1000BaseT(X) Port
1783-USP1S4T	4	—	1	—	—	• 1...4: RJ45 Ports • 5: SFP Port	• RJ45 Ports: 10/100BaseT(X) • SFP Port: 100BaseSFP slot
1783-USP1S64TG	—	4	—	1	—	• 1...4: RJ45 Ports • 5: SFP Port	• RJ45 Ports: 10/100/1000BaseT(X) • SFP Port: 100/1000BaseSFP
1783-USP1S7T	7	—	1	—	—	• 1...7: RJ45 Ports • 8: SFP Port	• RJ45 Ports: 10/100BaseT(X) • SFP Port: 100BaseSFP slot
1783-USP1TG4TGE	—	1	—	—	4	• 1: RJ45 Port • 2...5: RJ45 PoE Ports	• RJ45 Port: 10/100/1000BaseT(X) • RJ45 Port: 10/100/1000BaseT(X) PoE 802.3 bt PSE
1783-USP2S6T	6	—	2	—	—	• 1...6: RJ45 Ports • 7...8: SFP Ports	• RJ45 Ports: 10/100BaseT(X) • SFP Ports: 100BaseSFP slot
1783-USP2S616T	16	—	—	2	—	• 1...16: RJ45 Ports • G1...G2: SFP Ports	• RJ45 Ports: 10/100BaseT(X) • SFP Ports: 100/1000BaseT(X) or 100/1000BaseSFP
1783-USP2S68TG	—	8	—	2	—	• G1...G8: RJ45 Ports • G1...G2: SFP Ports	• RJ45 Ports: 10/100/1000BaseT(X) • SFP Ports: 100/1000BaseT(X) or 100/1000BaseSFP

Table 10 - Stratix 2100 5 Port and 8 Port Technical Specifications

Attribute	1783-USP5T	1783-USP1S4T	1783-USP1S64TG	1783-USP5TG, 1783-USP5TGK	1783-USP8T	1783-USP8TG, 1783-USP8TGK	1783-USP1S7T	1783-USP2S6T
Power input	12/24/48 V DC 24V AC, 50/60 Hz							
Power consumption, max	1.1 W	1.8 W	3 W	2.5 W	1.8 W	4 W	2.4 W	3.1 W
Number of terminal blocks	1							
Enclosure type rating	None (open-style)							
Temp code	T4							
MAC addresses, max supported	2 K							
Weight	270 g	271 g		270 g	353 g		355 g	359 g
Insulation stripping length	10 mm							
Packet buffer size	768 kBit							

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Table 11 - Stratix 2100 (10 and 16 GE Port) (16, and 18 FE Port Specifications) Technical Specifications

Attribute	1783-USP2SG8TG	1783-USP16T	1783-USP16TG, 1783-USP16TGK	1783-USP2SG16T
Power input	12/24/48 V DC 24V AC, 50/60 Hz	12/24/48 V DC 24V AC		
Power consumption, max	7.06 W	4.5 W	11.5 W	8.4 W
Number of terminal blocks	1			
Enclosure type rating	None (open-style)			
Temp code	T4			
MAC addresses, max supported	2 K	8 K		
Weight	353 g	524 g		634 g
Insulation stripping length	10 mm			
Packet buffer size	768 kBit	4 MBit		

Table 12 - Stratix 2100 Environmental Specifications

Attribute	1783-USP5T, 1783-USP1S4T, 1783-USP1S64TG, 1783-USP5TG, 1783-USP5TGK, 1783-USP8T, 1783-USP8TG, 1783-USP8TGK, 1783-USP1S7T, 1783-USP2S6T, 1783-USP2SG8TG, 1783-USP16T, 1783-USP16TG, 1783-USP16TGK, 1783-USP2SG16T
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)	-40 °C < Ta < +75 °C (-40 °F < Ta < +167 °F)
Temperature, surrounding air, max	75 °C (167 °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 °C < Ta < +85 °C (-40 °F < Ta < +185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% non-condensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	5 Hz < f < 9 Hz sinusoidal vibration with 3.5 mm amplitude 9 Hz < f < 150 Hz sinusoidal vibration with 1.0 g constant acceleration
Operating shock IEC 60068-2-27 (Test Ea, Unpackaged Shock)	15 g
Emissions	CISPR11 (IEC 61000-6-4)
ESD immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...1000 MHz 3V/m with 1 kHz sine-wave 80% AM from 1400...6000 MHz
EFT/B immunity IEC 61000-4-4	Performance criterion A: • 1 kV at 5 kHz on power ports • 500 V at 5 kHz on communication ports Performance criterion B: • 4 kV at 5 kHz on power ports • 2 kV at 5 kHz on communication ports

Stratix Ethernet Device Specifications Technical Data

Table 12 - Stratix 2100 Environmental Specifications

Attribute	1783-USP5T, 1783-USP1S4T, 1783-USP1S64TG, 1783-USP5TG, 1783-USP5TGK, 1783-USP8T, 1783-USP8TG, 1783-USP8TGK, 1783-USP1S7T, 1783-USP2S6T, 1783-USP2S68TG, 1783-USP16T, 1783-USP16TG, 1783-USP16TGK, 1783-USP2S616T
Surge transient immunity IEC 61000-4-5	- Performance criterion B - AC/DC power lines: - Line/Earth: 2 kV 1.2/50µs - Line/Line: 1 kV 1.2/50µs - Data communication: - Shielded Line/Earth: 2 kV 1.2/50µs - Unshielded Line/Earth: 2 kV 1.2/50µs
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 at 50 Hz
Environmental rating	IP30

Table 13 - Stratix 2100 Certifications

Certifications (when product is marked) ⁽¹⁾	1783-USP5T, 1783-USP5TG, 1783-USP5TGK, 1783-USP8T, 1783-USP8TG, 1783-USP8TGK, 1783-USP1S4T, 1783-USP1S64TG, 1783-USP1T64TGE, 1783-USP1S7T, 1783-USP2S6T, 1783-USP2S68TG, 1783-USP16T, 1783-USP16TG, 1783-USP16TGK, 1783-USP2S616T
c-UL-us	UL 61010-1, UL 61010-2-201 (NRA0), CSA C22.2 No. 61010-1-12 (NRA07), UL 121201 (NRAG), CSA C22.2 No. 213-17 (NRAG7)
CE (EU - EMC)	European Union 2004/108/EC EMC Directive, compliant with: EN IEC 61000-6-4, EN IEC 61000-6-2, EN IEC 61000-3-2, EN IEC 61000-3-3
Taiwan BSMI	CNS 15936 (105), CNS 15598-1 (109), and CNS 15663 (102)
CE (EU - RoHS)	2011/65/EU RoHS (EN IEC 63000:2018)
ATEX (EU)	EN IEC 60079-0, EN IEC 60079-7 (Zone 2, Protection "e"), EN IEC 60079-15 (Zone 2, Protection "n")
IECEx	IEC 60079-0, IEC 60079-7 (Zone 2, Protection "e"), IEC 60079-15 (Zone 2, Protection "n")
WEEE (EU)	EU Directive 2012/19/EU
RCM	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
KCC	Korean Registration of Broadcasting and Communications Equipment, compliant with: KN11 (Group 1, Class A), IEC 61000-6-2, Clause 3, Article 58-2 of Radio Waves Act
China RoHS	SJ/T11364-2006, GB/T 26572-2011, SJ/Z 11388
CCC Ex (China)	GB/T 3836.1-2021; GB/T 3836.3-2021; GB/T 3836.8-2021
Morocco	NM EN 61000-6-4, NM EN 61000-6-2, NM EN 61000-3-2, NM EN 61000-3-3
UKCA (UK)	BS EN IEC 61000-6-4, BS EN IEC 61000-6-2, BS EN IEC 61000-3-2, BS EN IEC 61000-3-3
UKEX (UK)	EN IEC 60079-0, EN IEC 60079-7 (Zone 2, Protection "e"), EN IEC 60079-15 (Zone 2, Protection "n")
TEC	As per TEC essential requirements TEC37942410

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

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Figure 11 - Stratix 2100 8 Port Switch Dimensions
(1783-USP8T, 1783-USP8TG, 1783-USP8TGK, 1783-USP1S7T, 1783-USP2S8T)

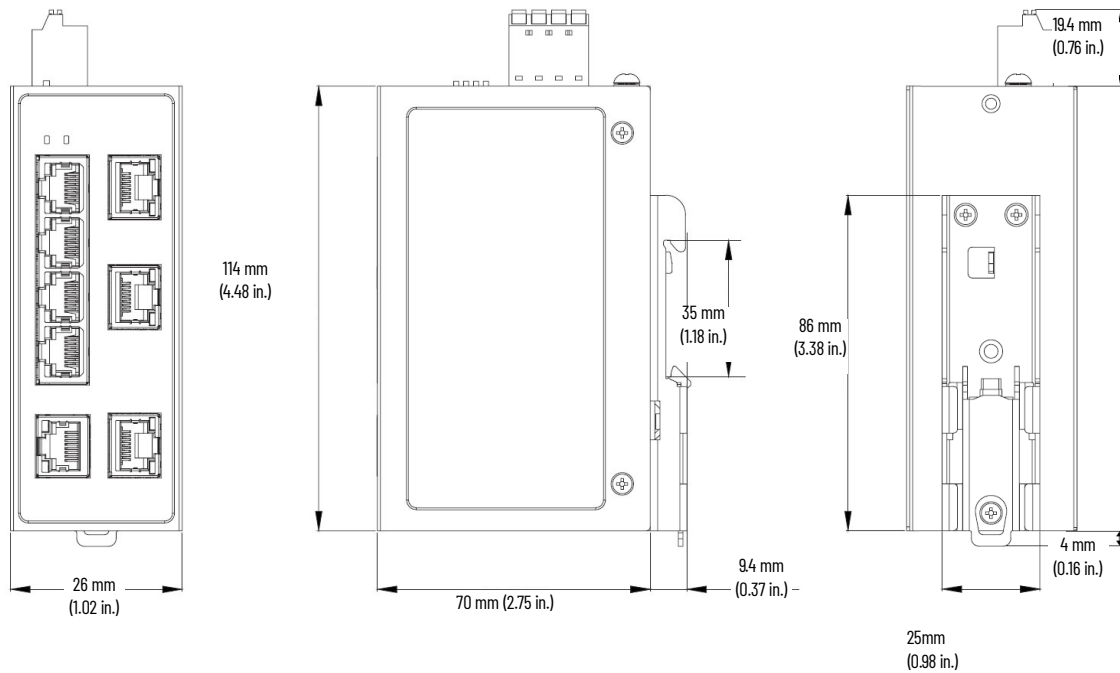
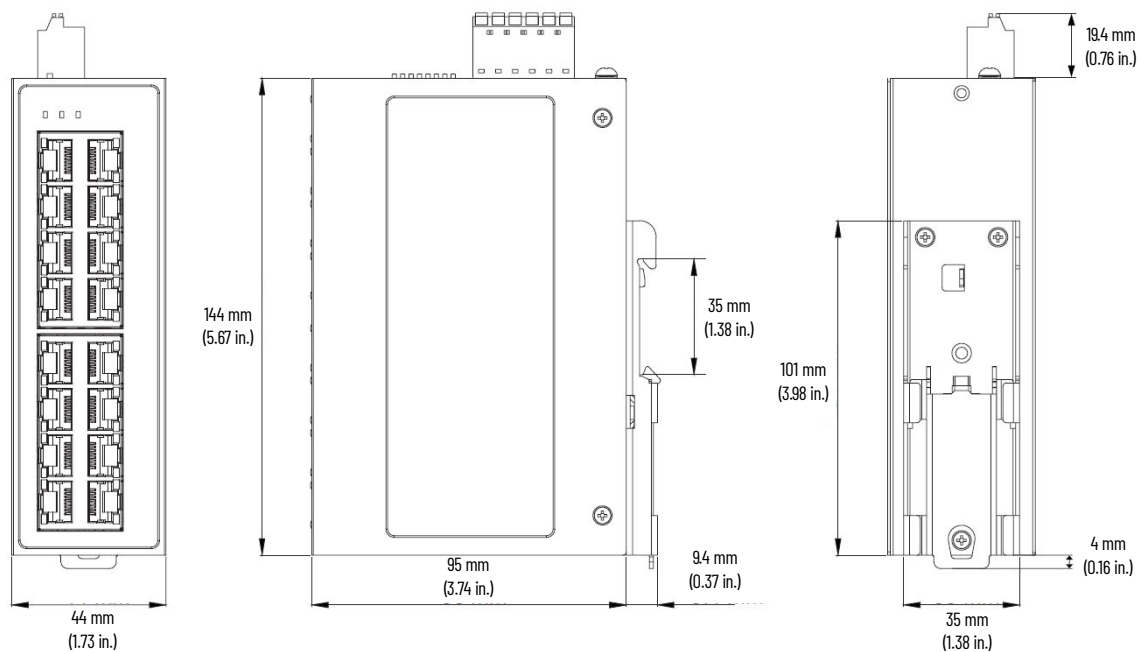


Figure 12 - Stratix 2100 16 Port Switch Dimensions
(1783-USP16T, 1783-USP16TG, 1783-USP16TGK)





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