Rockwell Automation

Stratix 4100
Next Generation ETAP

Date

expanding **human possibility**®

Connectivity Enablers

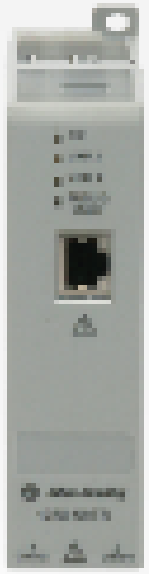
Including Wireless Wi-Fi / Cellular

- Connectivity to Wi-Fi and Cellular Networks
- Integrated with FactoryTalk Solutions
- Enablers for Migration to Ethernet
- Improve Total Cost of Ownership
- Protect Assets from external threats
- Connect new Assets to Existing networks

1783-ETAP Lifecycle Announcement

Standard 1783-ETAP

- Current Lifecycle Status: **Active**
  - New product remains available for sale
  - Spare parts, repair services, tech support available
  - Not eligible for Special Pricing Agreements
- Future Lifecycle Status: **End of Life**, planned **TBD**
  - New product not available for sale
  - Spare parts, repair services available if practical
  - Tech support available with paid contract
  - Not eligible for Special Pricing Agreements
- Future Lifecycle Status: **Discontinuation**, refer table
  - Spare parts, repair services available if practical
  - Tech support available with paid contract
  - Not eligible for Special Pricing Agreements



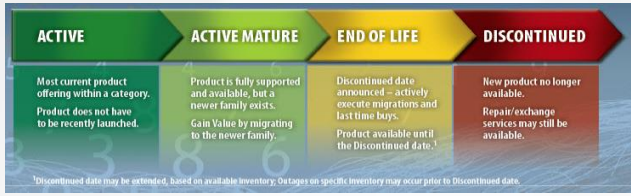
Product Lifecycle Status Definitions

ACTIVE: Most current offering within a product category

ACTIVE MATURE: Product is fully supported, but a newer product or family exists. Gain value by migrating.

End Of Life: Discontinued date announced – actively execute migrations and last time buys. Product generally orderable until the discontinued date*

DISCONTINUED: Product no longer manufactured or procured**. Repair/exchange services may be available



Catalog Number	Product Lifecycle Status	Move to Active Mature	End of Life	Product Discontinuation
1783-ETAP	Active	December 2025	May 2026	May 2027
1783-ETAPK	Active	May 2026	May 2027	November 2027
1783-ETAP1F (K)	Active	May 2026	May 2027	November 2027
1783-ETAP2F(K)	Active	May 2026	May 2027	November 2027

ETAP Customer Benefits

ETAPs allow customers to:

- Integrate a non-DLR capable device into an DLR network
  - Increasing network resiliency
  - Improving production up-time
  - While not imposing the acquisition of new devices
- Assign the ETAP device as a Ring Supervisor in the network
  - Managing the up-date rates of traffic on the ring
  - Allowing for efficient use of the network device's operation
- Allows users to troubleshoot network issues when configured in a Debug Mode
  - Easy transition to Debug Mode through Rockwell Automation tools
  - Third party tools allow for monitoring of CIP traffic flow

Stratix 4100 – Next Generation ETAP Initial Overview

Target AFC Date: October 2025 **XT Version: Target AFC Date: January 2026**

- Key Points
  - Based on current ETAP solution for
  - Functionality: drop in replacement
  - Physicality: Mechanical form factor is different
    - Next generation ETAP is taller

Standard
Stratix 4100

XT
Stratix 4100

- Hardware updates to meet market requirements:
  - 1 Gbps Capability
  - SFP Options
  - Rotary switches for configuration

Catalog Numbers	Description
1783-ETAP3T	Three copper ports
1783-ETAP1T2SFP	One copper port, two SFP slots on network side
1783-ETAP3TXT	Three copper ports, XT
1783-ETAP1T2SFPXT	One copper port, two SFP slots on network side, XT

Stratix 4100 Next Generation ETAP

Enhanced operations on Stratix 4100 versus current ETAP

- Increased speed for modernization
  - 1 Gbps data transmission rate
- Adds ability to support media conversion from fiber to copper and vice versa
  - Allowing longer runs of cabling with fiber (greater than 100 meters)
- Advanced network diagnostics features including
  - LLDP (Link Layer Discovery Protocol) – supporting the ability to identify directly connected devices
  - ADDA (Automatic Device Descriptive Analytics) – visible through the add-on profile and product webpage, visibility of key performance parameters
  - Status Assembly - Tags structure data of device diagnostics can be exposed to upper-level software
  - CIP Security – supports CIP Security natively, integrating into CIP Secure networks, through FactoryTalk Policy Manager

Stratix 4100 Initial Overview

General Product Capabilities

- The tap ships DHCP-enabled and with the rotary switches on the side of the tap set to 999. Out-of-the-box, the tap does not have an IP address. The tap requires an IP address to operate on an EtherNet/IP network.
- Specific IP address for configuration and management. The IP address can be assigned in the following ways:
  - ***Rotary switches***
  - DHCP
  - Using the TCP/IP object
- Add On Profile (AOP) for the purpose of exposing status and diagnostic information and for standard EtherNet/IP configuration.
- EDS file for the purpose of configuring the device through FactoryTalk Linx.
- Allows for the factory default reset – physically.
  - This shall be accomplished through the standard method of setting the rotary switches to 888 and cycling power.
- Port Operation
  - Two network ports, that are DLR capable.
  - Third port for connecting to multiple devices, including linear topologies. These ports shall be clearly delineated on the device.

https://literature.rockwellautomation.com/idc/groups/literature/documents/in/1783-in024_-en-p.pdf

What's new in the Stratix 4100 AOP?

Controller Tags

- ETAP_SFP:S.DiagnosticSequenceCount
  - ETAP_SFP:S.DiagnosticSequenceCount.0
  - ETAP_SFP:S.DiagnosticSequenceCount.1
  - ETAP_SFP:S.DiagnosticSequenceCount.2
  - ETAP_SFP:S.DiagnosticSequenceCount.3
  - ETAP_SFP:S.DiagnosticSequenceCount.4
  - ETAP_SFP:S.DiagnosticSequenceCount.5
  - ETAP_SFP:S.DiagnosticSequenceCount.6
  - ETAP_SFP:S.DiagnosticSequenceCount.7

Diagnostics on AOP

Port 1 diagnostics

Interface Counters		Media Counters
Octets inbound:	891632129	Alignment errors:
Octets outbound:	899725655	FCS errors:
Unicast packets inbound:	46155	Single collisions:
Unicast packets outbound:	73907	Multiple collisions:
Non-unicast packets inbound:	148054875	SQE test errors:
Non-unicast packets outbound:	148076009	Deferred transmissions:
Packets discarded inbound:	0	Late collisions:
Packets discarded outbound:	0	Excessive collisions:
Packets with errors inbound:	0	MAC transmit errors:
Packets with errors outbound:	0	MAC receive errors:
Unknown protocol packets inbound:	0	Carrier sense:

Modernization Comparison

If you were using:	Closest Comparison:
Stratix 4000 ETAP	Stratix 4100 ETAP
Standard	Standard
1783-ETAP	1783-ETAP3T
1783-ETAP1F 1783-ETAP2F	1783-ETAP1T2SFP
Conformal Coated	Extended Temp
1783-ETAPK	1783-ETAP3TXT
1783-ETAP1FK 1783-ETAP2FK	1783-ETAP1T2SFPXT

Phase 1
AFC Planned:
OCT 2025

Phase 2
AFC Planned:
JAN / FEB 2026

Standard & XT Versions: Dimensional Comparison

Parameters	Stratix 4000 (Current_ETAP)	Stratix 4100 (Next Gen. ETAP)
Ethernet Ports	3	3
Size (HxWxD) mm	118.0mmx34.5mmx104.9mm	145.2mmx34.5mmx139.6mm
Size (HxWxD) inches	4.65"x1.35"x5.50"	5.72"x1.35"x5.50"

1783-ETAP

Next Gen ETAP

Technical Specifications (Copper Variant)

Attributes	1783-ETAP (Stratix 4000)	1783-ETAP3T (Stratix 4100)
Power consumption, max	3W	3.7W
Current consumption, max	125mA @24V DC	180mA @24V DC
DC power supply voltage rating	24V DC (20.4...27.6V DC)	24V DC (20.4...27.6V DC)
Ethernet connections	RJ45 connector per IEC 60603-7-2	RJ45 connector per IEC 60603-7-2
DC power connections	• One 0.33...3.3 mm2 (22...12 AWG) • Two 0.33...1.3 mm2 (22...16 AWG) solid • Stranded copper wire rated at 75 °C (167 °F) or greater • 1.2 mm (3/64 in.) insulation max	• One 0.33...3.3 mm2 (22...12 AWG) • Two 0.33...1.3 mm2 (22...16 AWG) solid • Stranded copper wire rated at 75 °C (167 °F) or greater • 1.2 mm (3/64 in.) insulation max
Temperature, operating	-25 °C ≤ Ta ≤ +70 °C	-25 °C ≤ Ta ≤ +70 °C
Temperature, surrounding air, max	70 °C	70 °C

Functionality Comparison

Attributes	Stratix 4000 (Current_ETAP)	Stratix 4100 (Next Gen. ETAP)
Software Requirements	RSLinx Classic: • 2.56.00 or later Studio 5000 Logix Designer: • 21.00.00 or later	FactoryTalk Linx: • 6.00.00 or later Studio 5000 Logix Designer: • 33.00.00 or later
Web Interface	Unsecure (http)	Secure (https)
Communication Speed	10/100Mbps	10/100/1000Mbps
Ip Address & Mode Configuration	DIP Switch, BOOTP/DHCP	Dip Switch, Rotary Dial, BOOTP/DHCP
ADDA, Diagnostics	None	Via AOP
Fiber-Optic	Duplex LC Connector	SFP Transceiver

Specification Comparison

1783-ETAP2F to 1783-ETAP1T2SFP

Attributes	1783-ETAP2F	1783-ETAP1T2SFP
Power consumption, max	6.24W	7.25W
Current consumption, max	260mA @24V DC	375mA @24V DC
DC power supply voltage rating	24V DC (20.4...27.6V DC)	24V DC (20.4...27.6V DC)
Ethernet connections	Duplex LC Connector	SFP Transceiver
DC power connections	• One 0.33...3.3 mm2 (22...12 AWG) • Two 0.33...1.3 mm2 (22...16 AWG) solid • Stranded copper wire rated at 75 °C (167 °F) or greater • 1.2 mm (3/64 in.) insulation max	• One 0.33...3.3 mm2 (22...12 AWG) • Two 0.33...1.3 mm2 (22...16 AWG) solid • Stranded copper wire rated at 75 °C (167 °F) or greater • 1.2 mm (3/64 in.) insulation max
Temperature, operating	-25 °C ≤ Ta ≤ +70 °C	-25 °C ≤ Ta ≤ +70 °C
Temperature, surrounding air	70 °C max	70 °C max

Stratix 4100: ETAP1T2SFP & 1783-SFPs Compatibilities

Catalog Number	1783-ETAP1T2SFP Compatible	1783-ETAP1T2SFPXT Compatible
Rockwell Automation SFP Catalog Numbers		
1783-SFP1GSX (Multi-mode Fiber)	Yes	Yes
1783-SFP1GLX (Single-mode Fiber)	Yes	Yes
1783-SFP1GEXE (Single-mode Fiber)	Yes	Yes
1783-SFP1GZX (Single-mode Fiber)	Yes	Yes
1783-SFP1GTE (Cooper)	Yes	Yes
None Rockwell Automation SFP Catalog Numbers for 100Mbps fiber communications		
FS SFP-GE-100FX[1] (Single-mode Fiber)	Yes	Yes
SFP-1GB-FX-I-SGMII-C-AO[1](Multi-mode Fiber)	Yes	Yes

1: See Slide Technical Notes: SFP Compatibility for Operations
2: When the new non-diagnostic SFP catalog numbers begin shipping they will be added and available to support the Stratix 4100

Stratix 4100: ETAP1T2SFP & 1783-SFPs Compatibilities

Catalog Number	1783-ETAP1T2SFP Compatible	1783-ETAP1T2SFPXT Compatible
Rockwell Automation Non-Diagnostic SFP Catalog Numbers		
1783-SFP1GSX-ND(Multi-mode Fiber)	Yes	Yes
1783-SFP1GSX2-ND (Multi-mode Fiber)	Yes	Yes
1783-SFP1GLX-ND (Single-mode Fiber)	Yes	Yes
1783-SFP1GTE-ND (Cooper)	Yes	Yes

Non-diagnostic SFPs are intended for basic connections and are typically used in unmanaged switches or simpler network setups where diagnostics are not required.

Technical Notes: SFP Compatibility for Operations

100mbps Operation for fiber applications

- If the Stratix 4100 ETAP is being used for 100Mbps fiber – single or multimode applications
  - Rockwell offered SFPs will not support use case
  - Customers need to look at 3rd party SFP solutions
- To support this the following SFPs has been evaluated for specific designs
  - Both are capable of SGMII (Serial Gigabit Media Independent Interface)
  - Option 1
    - From Addon
    - Catalog Number: SFP-1GB-FX-I-SGMII-C-AO(1) (Fiber) - Link
  - Option 2
    - From: FS
    - Catalog Number: SP GLC-GE-100LX – Link

Rockwell Automation

Questions?

expanding **human possibility**®

Rockwell Automation