

# Juniper Networks T-series PIC/FPC Compatibility Matrix

Flexible PIC Concentrators (FPCs) house the Physical Interface Cards (PICs) and are installed in front-side slots in the T320 router, and the T640 and T1600 routing nodes. Most PICs for these platforms are labeled E (enhanced) and E2 (enhanced, version 2). They have greater scalability and increased CoS capabilities over the original T-series FPCs.

For investment protection and smooth migration, many PICs are portable between T320 router, and the T640 and T1600 routing nodes. The ability to mix and match PICs within a single FPC slot offers unparalleled interface density and flexibility, making cost-effective use of valuable rack space while enabling service providers to efficiently scale the network.

PIC Type	T320			T640/T1600			
	T320-FPC1-E & T320-FPC1-E2	T320-FPC2-E & T320-FPC2-E2	T320-FPC3-E & T320-FPC3-E2	T640-FPC1-E & T640-FPC1-E2	T640-FPC2-E & T640-FPC2-E2	T640-FPC3-E & T640-FPC3-E2	T640-FPC4-ES T1600-ST-FPC4
<b>SONET/SDH PICs</b>							
OC-3c/STM-1, 4-port		■		■	■		
OC-12c/STM-4, 1-port	■			■			
OC-12c/STM-4, 4-port		■			■		
OC-48c/STM-16, 1-port SFP		■			■		
OC-48c/STM-16, 4-port SFP			■			■	
OC-192c/STM-64, 1-port			■			■	
OC-192c/STM-64, 1-port XFP			■			■	
OC-192c/STM-64, 4-port XFP							■
OC-768c/STM-256, 1-port							■
<b>SONET/SDH Multi-Rate PICs</b>							
OC-3c/STM-1, Multi-Rate, SFP		■			■		
OC-12c/STM-4, Multi-Rate, SFP		■			■		
OC-48/STM-16, Multi-Rate, SFP		■			■		
<b>Ethernet PICs</b>							
Fast Ethernet, 4-port	■			■			
Fast Ethernet, 12-port	■						
Fast Ethernet, 48-port		■					
1-Gigabit Ethernet, 1-port SFP	■			■			
1-Gigabit Ethernet, 2-port SFP		■			■		
1-Gigabit Ethernet, 4-port SFP		■			■		
1-Gigabit Ethernet, 10-port SFP			■			■	
10-Gigabit Ethernet, 1-port XENPAK			■			■	
10-Gigabit Ethernet, 1-port DWDM			■			■	
<b>Ethernet IQ PICs</b>							
1-Gbps Gigabit Ethernet IQ, 1-port SFP	■			■			
1-Gbps Gigabit Ethernet IQ, 2-port SFP		■			■		
<b>Ethernet IQ2 PICs</b>							
1-Gigabit Ethernet IQ2, 4-port SFP oversubscription	■			■			
1-Gigabit Ethernet IQ2, 8-port SFP oversubscription		■			■		
1-Gigabit Ethernet IQ2, 8-port SFP line rate			■			■	
10-Gigabit Ethernet IQ2, 1-port XFP line rate			■			■	

	T320			T640/T1600			
	T320-FPC1-E & T320-FPC1-E2	T320-FPC2-E & T320-FPC2-E2	T320-FPC3-E & T320-FPC3-E2	T640-FPC1-E & T640-FPC1-E2	T640-FPC2-E & T640-FPC2-E2	T640-FPC3-E & T640-FPC3-E2	T640-FPC4-ES T1600-ST-FPC4
<b>ATM2 IQ PICs</b>							
E3 IQ, 4-port				■			
OC-3/STM-1 IQ, 2-port	■			■			
OC-12/STM-4 IQ, 1-port	■			■			
OC-12/STM-4 IQ, 2-port		■			■		
OC-48/STM-16 IQ, 1-port		■			■		
<b>Channelized IQ PICs</b>							
ChDS3 IQ, 4-port				■			
ChOC3 IQ, 1-port	■						
ChOC-12 IQ, 1-port	■			■			
ChSTM-1 IQ, 1-port	■						
<b>T1, E1, DS3, E3 PICs</b>							
DS3, 4-port	■			■			
E3 IQ, 4-port	■			■			
<b>Services PICs</b>							
Adaptive Services II (AS)	■			■			
Adaptive Services II Layer 2 services	■			■			
Encryption Services (ES)	■			■			
Monitoring Services II	■			■			
Monitoring Services III	■				■		
Multi Services 100	■			■			
Multi Services 400		■			■		
Multi Services 500			■			■	
Tunnel PIC type 1	■			■			
Tunnel PIC type 2		■			■		
Tunnel PIC type 3			■			■	
Tunnel PIC type 4							■

Note: In some instances, PIC/FPC compatibility may only be supported as of a particular JUNOS release. Consult the PIC Guide for your platform for more information.

## About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at [www.juniper.net](http://www.juniper.net)



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