Which one…..FXO or FXS??

- **FXO**
  - O is for Office, we are connecting the analog trunks from the PSTN
  - Need one for each incoming analog trunk
  - FXO modules are red and are available in single or quad sizes (4 port card uses only single modules, 8 port card uses single or quad, 24 port card uses only quad)
- **FXS**
  - S is for analog Stations
  - Need one per analog device such as a regular analog phone, a cordless analog phone, credit card machine, paging system, door locks
  - FXS modules are green and are available in single or quad sizes (4 port card uses only single modules, 8 port card uses single or quad, 24 port card uses only quad)
  - FXS modules require an additional 12V of power to operate

Understanding the Part Numbers

TDM#XYB(E) or AEX#XYB(E)

- TDM = All analog cards for standard PCI slots begin with TDM
- AEX = All analog cards for PCI-express slots begin with AEX
- # = the number of ports on the card (will always be 4, 8 or 24)
- X = the number of FXS modules
- Y = the number of FXO modules
- B = the card is bundled with FXO and/or FXS modules
- E= includes modules and echo cancellation hardware (VPMADT032)

Example:

Your customer has 4 analog trunks, they do not need to connect any analog stations, the server has standard PCI slots and they do not want optional echo cancellation module, VPMADT032. What Digium card do they need?

Answer: TDM404B

TDM for the standard PCI slot
4 because they have 4 modules to connect (this will always be either 4, 8 or 24)
0 because they do not have any FXS modules
4 because they have 4 FXO modules for the 4 analog trunks
B because they do not want the echo cancellation module

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How to Determine Which Analog Board You Need

Example:

Your customer has four analog trunks, one credit card machine and the receptionist uses one cordless phone. The server has standard PCI slots and they want optional hardware echo cancellation. What Digium card do they need?

Answer: TDM824E

TDM because they have standard PCI Slots
8 because they need 6 modules on the card and our choices are only 4, 8 or 24
2 because they have 2 analog stations to connect which means they need 2 FXS modules
4 because they have 4 analog trunks to connect which means they need 4 FXO modules
E = because they want the optional hardware echo cancellation module, VPMADT032

Example:

Your customer has 3 analog trunks and 2 analog stations, they have PCI-express slots and they do not need the echo cancellation module. What Digium card do they need?

Answer: AEX824B

AEX because they have PCI-express slots
8 because they need 5 modules on the card and our choices are only 4, 8 or 24
2 because they need 2 FXS modules for the two analog stations
4 because they need 3 FXO modules and the 8 port analog card can only do either 4 single span modules, two quad modules or a combination of one quad and up to 2 singles
B because they do not want the echo cancellation module

Example:

Your customer has 6 analog trunks and 14 analog stations, they have standard PCI slots and they need the echo cancellation module. (Note: We do not recommend selling our cards without the echo cancellation hardware. Echo cancellation takes a tremendous amount of your CPU resources.) What Digium card do they need?

Answer: TDM2442E

TDM for standard PCI slots
24 because they need to connect 20 modules
4 because they will need 4 quad span FXS modules, the TDM2400 only supports quad modules
2 because they need 2 quad span FXO modules, since the 24 port card only supports quad modules, if you need 6, you'll have to purchase two quad modules which gives you room to later add two more lines if necessary

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Quick Reference Chart – TDM410/AEX410

TDM4XYB(E)

- TDM = All analog cards for standard PCI slots begin with TDM
- # = the number of ports on the card (will always be 4, 8 or 24)
- X = the number of FXS modules
- Y = the number of FXO modules
- B = the card is bundled with FXO and/or FXS modules
- E= includes modules and echo cancellation hardware (VPMADT032)

* Remember you will need to add either B or E to the part number depending on whether or not they want the echo cancellation hardware, VPMADT032

	0 FXO	**1 FXO**	**2 FXO**	**3 FXO**	**4 FXO**
0 FXS	TDM410PLF Wildcard AEX410 PLF Wildcard	TDM401 AEX401	TDM402 AEX402	TDM403 AEX403	TDM404 AEX404
1 FXS	TDM410 AEX410	TDM411 AEX411	TDM412 AEX412	TDM413 AEX413	
2 FXS	TDM420 AEX420	TDM421 AEX421	TDM422 AEX422		
3 FXS	TDM430 AEX430	TDM431 AEX431			
4 FXS	TDM440 AEX440				

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Quick Reference Chart – TDM800 & AEX800

TDM8XYB(E) or AEX8XYB(E)

- TDM = All analog cards for standard PCI slots begin with TDM
- AEX = All analog cards for PCI-express slots begin with AEX
- # = the number of ports on the card (will always be 4, 8 or 24)
- X = the number of FXS modules
- Y = the number of FXO modules
- B = the card is bundled with FXO and/or FXS modules
- E= includes modules and echo cancellation hardware (VPMADT032)

** Remember you will need to add either BF or EF to the part number depending on whether or not they want the echo cancellation hardware, VPMADT032

	0 FXO	1 FXO	2 FXO	3 FXO	4 FXO	5 FXO	6 FXO	7 FXO	8 FXO
0 FXS	TDM800 AEX800 wildcards	TDM801 AEX801	TDM802 AEX802	TDM803 AEX803	TDM804 AEX804	TDM805 AEX805	TDM806 AEX806		TDM808 AEX808
1 FXS	TDM810 AEX810	TDM811 AEX811	TDM812 AEX812	TDM813 AEX813	TDM814 AEX814	TDM815 AEX815			
2 FXS	TDM820 AEX820	TDM821 AEX821	TDM822 AEX822		TDM824 AEX824				
3 FXS	TDM830 AEX830	TDM831 AEX831							
4 FXS	TDM840 AEX840	TDM841 AEX841	TDM842 AEX842		TDM844 AEX844				
5 FXS	TDM850 AEX850	TDM851 AEX851							
6 FXS	TDM860 AEX860								
7 FXS									
8 FXS	TDM880 AEX880								

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Quick Reference Chart – TDM2400 & AEX2400

TDM24XYB(E) or AEX24XYB(E)

- TDM = All analog cards for standard PCI slots begin with TDM
- AEX = All analog cards for PCI-express slots begin with AEX
- # = the number of ports on the card (will always be 4, 8 or 24)
- X = the number of FXS modules
- Y = the number of FXO modules
- B = the card is bundled with FXO and/or FXS modules
- E= includes modules and echo cancellation hardware (VPMADT032)

** Remember you will need to add either BF or EF to the part number depending on whether or not they want the echo cancellation hardware, VPMADT032

	0 FXO	4 FXO	8 FXO	12 FXO	16 FXO	20 FXO	24 FXO
0 FXS	TDM2400 AEX2400 wildcard	TDM2401 AEX2401	TDM2402 AEX2402	TDM2403 AEX2403	TDM2404 AEX2404	TDM2405 AEX2405	TDM2406 AEX2406
4 FXS	TDM2410 AEX2410	TDM2411 AEX2411	TDM2412 AEX2412	TDM2413 AEX2413	TDM2414 AEX2414	TDM2415 AEX2415	
8 FXS	TDM2420 AEX2420	TDM2421 AEX2421	TDM2422 AEX2422	TDM2423 AEX2423	TDM2424 AEX2424		
12 FXS	TDM2430 AEX2430	TDM2431 AEX2431	TDM2432 AEX2432	TDM2433 AEX2433			
16 FXS	TDM2440 AEX2440	TDM2441 AEX2441	TDM2442 AEX2442				
20 FXS	TDM2450 AEX2450	TDM2451 AEX2451					
24 FXS	TDM2460 AEX2460						

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