

Digium's Asterisk® software has, since its first release in December of 1999, become the global standard for companies and individuals who need to decrease their cost of ownership of, and improve their control over, telecommunications. With Asterisk, users build anything from simple home-based business solutions to complex multi-location enterprise telephone systems. Since 2001, Digium® has designed, manufactured, and sold PC-based interface cards for extending the functionality of Asterisk to the Public Switched Telephone Network (PSTN).

Quality Analog and Digital Boards

Digium is committed to providing our customers with a high-quality solution.

All Digium analog and digital interface cards:

- Are RoHS compliant
- Are manufactured in an ISO 9001:2001 certified facility in the United States
- Maintain an MTBF greater than one (1) million hours.
- Are backed by a five (5) year hardware warranty
- Are backed by Digium's Exceptional Satisfaction Program (ESP).

ESP - Exceptional Satisfaction Program

Open source solutions, including Asterisk, are now moving into the mainstream for many business users. Along with this adoption comes the expectation that open source solutions will perform with the same degree of quality and reliability that traditional solutions have delivered. The ESP program is our response to this expectation. We want to provide the confidence to our customers and partners that Digium is a company they can trust for all their telephony needs.

Under the Risk-Free Guarantee, Digium® will refund the purchase price of any qualifying Digium product(s) for any customer that is not 100% satisfied with the performance of the Digium product(s) they purchased. If Digium can not resolve the trouble to the customer's complete satisfaction, the customer may return the product(s) for a full refund of the purchase price up to MSRP. The refund will be paid in US Dollars only, to the same entity listed on the invoice. There is no predetermined end date for this offer, but Digium reserves the right to discontinue this offer at any time. Digium may, in its sole discretion, make exceptions to the terms of this offer to accommodate special customer circumstances or to protect from fraudulent claims. Digium is committed to complete customer satisfaction.

Please visit www.digium.com/ESP for more details on the Exceptional Satisfaction Program.



Certifications

Digium, as a globally minded company, ensures that all Digium digital interface cards maintain telecom, safety and emissions certifications permitting their use in Australia, Canada, the European Union, and the United States.

Digium® Analog Boards

Digium's analog boards are created in three different port density capabilities. Our four (4) port interface cards, making use of our single-channel Loopstart modules, are perfect for smaller installations needing a small number of lines. Our eight (8) port interface cards, using either our single-channel or our quad-channel Loopstart modules, are great for medium-sized installations. Our twenty-four (24) port interface cards, using our quad-channel Loopstart modules, are designed for larger installations or channel bank replacement.

						
	TDM410	AEX410	TDM800	AEX800	TDM2400	AEX2400
Ports	4	4	8	8	24	24
	RJ11	RJ11	RJ11	RJ11	50-pin RJ21	50-pin RJ21
Bus Type	PCI 2.2+	PCI-E 1.0+	PCI 2.2+	PCI-E 1.0+	PCI 2.2+	PCI-E 1.0+
Connector	3.3/5.0V	X1	3.3/5.0V	X1	3.3/5.0V	X1
Dimensions	6.46 x 10.67 x 1.72 cm	31.19 x 10.67 x 1.72 cm	31.19 x 10.67 x 1.72 cm			
Full-Height	Yes	Yes	Yes	Yes	Yes	Yes
Half-Length	Yes	Yes	Yes	Yes	No	No
FXO	Single Trunk Module	Single Trunk Module	Single and/or Quad Trunk Modules	Single and/or Quad Trunk Modules	Quad Trunk Modules	Quad Trunk Modules
FXS	Single Station Module	Single Station Module	Single and/or Quad Station Modules	Single and/or Quad Station Modules	Quad Station Modules	Quad Station Modules
Echo Cancellation	VPMADT032	VPMADT032	VPMADT032	VPMADT032	VPMADT032	VPMADT032

Digium® Digital Boards

Digium's digital boards are provided in three different port density capabilities. Our one (1) port interface cards, the TE121 and TE122, are perfect for smaller installations. Our two (2) port interface cards, the TE205, TE210 or TE220, are great for medium-sized installations. Our four (4) port interface cards, the TE405, TE410 or TE420, are designed for larger installations.

								
	TE122	TE121	TE205	TE210	TE220	TE405	TE410	TE420
Ports	1 Port E1/T1/J1	1 Port E1/T1/J1	2 Port E1/T1/J1	2 Port E1/T1/J1	2 Port E1/T1/J1	4 Port E1/T1/J1	4 Port E1/T1/J1	4 Port E1/T1/J1
	1	1	2	2	2	4	4	4
Bus Type	PCI 2.2+	PCI-E 1.0+	PCI 2.2+	PCI 2.2+	PCI-E 1.0+	PCI 2.2+	PCI 2.2+	PCI-E 1.0+
Connector	3.3/5.0V	X1	5.0V	3.3V	X1	5.0V	3.3V	X1
Dimensions	12.2x5.5x1.6 cm	12.2x5.5x1.6 cm	12.7x9.53x1.6 cm	12.7x9.53x1.6 cm	12.7x9.53x1.6 cm	12.7 x 9.53 x 1.6 cm	12.7 x 9.53 x 1.6 cm	12.7 x 9.53 x 1.6 cm
Full-Height	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Half-length	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Echo Cancellation	VPMADT032	VPMADT032	VPMOCT64	VPMOCT64	VPMOCT64	VPMOCT128	VPMOCT128	VPMOCT128

Digium® Analog Modules

Station-FXS (Foreign Exchange Station)

FXS is an interface that connects to a station, such as an analog telephone or the FXO interface of another PBX. It provides ringing voltage and battery to the FXO devices. FXS interfaces are used on the inside of your PBX, they do not connect directly to the PSTN. One FXS channel is required for each telephone that you wish to connect to your Asterisk system.



S100M

Single-Channel Analog Station Module

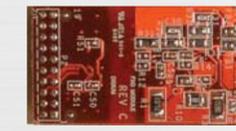


S400M

Quad-Channel Analog Station Module

Trunk-FXO (Foreign Exchange Office)

FXO is an interface that connects to a trunk line, like the one from your service provider. It receives ringing voltage and battery from FXS devices. FXO interfaces are used to connect your PBX to the PSTN. One FXO channel is required for each line you receive from your telco.



X100M

Single-Channel Analog Trunk Module



X400M

Quad-Channel Analog Trunk Module

Supported features on Analog boards:

Analog PCI / PCI-Express

4-24 Modular Ports
32-bit 33MHz
Analog Trunk or Station
Loop Start or Kewl Start Signaling
RoHS Compliant
5 Year Warranty
Temperature: 0° to 50° C
Optional DSP Echo Cancellation

Minimum Hardware Requirement

800-Mhz Pentium III
64MB RAM
Available PCI/PCI-e Slot

Supported features on Digital Boards:

Digium Digital PCI/PCI-Express

1-4 Ports E1/T1/PRI
32-bit 33MHz
RJ48C Ports
Built-in CSU/DSU
RoHS Compliant
5 Year Warranty
Temperature: 0 to 50° C
Optional DSP Echo Cancellation

Minimum Hardware Requirement

800-Mhz Pentium III
64MB RAM
Available PCI/PCI-e Slot

Framing Types

Superframe (D4)
Channel Associated Signaling (CAS)
Common Channel Signaling (CCS)

Coding Types

Alternative Mark Inversion (AMI)
Bipolar with Eight (8) Zeros Substitution (B8ZS)
High Density Bipolar of Order Three (3) Code (HDB3)*
**Optional Cyclic Redundancy Check 4 (CRC4)*

Primary Rate Interface (PRI) Switch Types

National ISDN 1 (NI1)
National ISDN 2 (NI2)
Nortel DMS100
AT&T 4ESS
Lucent 5ESS
EuroISDN Q.931
Q.SIG (Limited Support)
**Both PRI NET and PRI CPE are Supported*

Signaling Types

E&M, E&M E1, E&M Wink
Feature Group D (DTMF)
Feature Group D (MF)
Feature Group D (Tandem Access)
Feature Group B
Feature Group C-CAMA
Feature Group C-CAMA (MF)
Foreign Exchange Station (FXS) Loop Start, Ground Start, Kewl Start
Foreign Exchange Office (FXO) Loop Start, Ground Start, Kewl Start
PRI Network and CPE

Echo-Cancellation

Digium's telephony card offerings have the ability to use DSP-based echo cancellation modules. DSP-based echo cancellation can be more successful than software-based echo cancellation because it removes the burden of echo cancellation from the PC. Digium's echo cancellation modules are recommended when handling large call volumes or a high number of channels that would otherwise stress the CPU and result in the potential for poor audio quality. What makes the hardware echo cancellation so great?

Well, how about this:

- AT&T certified Toll-Quality G.168 compliant algorithm
- Dynamic Nonlinear Processor
- Comfort Noise Generator
- Automatic Tail Search
- Cancel Multiple Reflections
- Double-talk Detection
- 128ms of Echo Cancellation across all channels

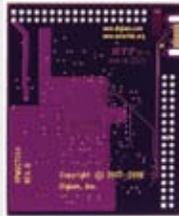


VPMOCT128

- Up to 128 channels
- 128ms (1024 taps) per channel

Compatible with the following Digital cards:

- TE410P (bundled as TE412P)
- TE405P (bundled as TE407P)
- TE420 (bundled as TE420B)



VPMOCT64

- Up to 64 channels
- 128ms (1024 taps) per channel

Compatible with the following Digital cards:

- TE210P (bundled as TE212P)
- TE205P (bundled as TE207P)
- TE220 (bundled as TE220B)



VPMADT032

- Up to 32 channels
- 128ms (1024 taps) per channel

Compatible with the following Analog cards:

- 4-port TDM410
- 4-port AEX410
- 8-port TDM800P
- 8-port AEX800
- 24-port TDM2400P
- 24-port AEX2400

Compatible with the following Digital cards:

- 1-port TE121
- 1-port TE122