Dialogic® IP Network Interface Series 3 Card

The Dialogic® IP Network Interface Series 3 Card is an IP plug-in line card for the Dialogic® Converged Services Platforms (CSP). It enables the CSP Platforms to support IP, performing two-way gateway conversion between circuit-switched and packet-switched media. Developers can use the IPN Series 3 Card to build revenue-generating voice, fax, and modem-over-IP services in which a CSP Platform acts as a gateway or media server in a converged services network.

The IPN Series 3 Card transcodes data from PCM to packet technology, compresses it, and provides silence suppression, echo cancellation, and jitter buffering to improve quality. The IPN Series 3 Card, along with SIP and H.323 signaling, provides a true gateway environment, enabling developers to deliver an application server, signaling engine, gateway, and media server, all in a single system. This unified architecture can translate into significant cost savings, reduced development time, and simplified operation for developers and service providers.

Features	Benefits
Supports up to 1024 IP media ports without compression (G.711 only), and up to 512 ports with compression (G.723.1, G.726, G.729, and T.38 fax) providing DTMF with RFC 2833 support	Provides a high-density IP environment, and supports popular IP coders to facilitate transcoding when interfacing between different IP networks
Supports traffic load sharing among IP Series 3 Cards	Increases the availability and reliability of a service
Supports two 100 MB/s Ethernet ports, configured as a Link Aggregate Group	Provides high availability and redundancy in case of an Ethernet port failure
Dynamic coder change	Allows flexibility in coder use, and dynamically changing coders during a call can optimize voice quality
Provides up to 4096 gateway ports	Increases the service capacity of a gateway application
New coders can be added via software load	Enables the introduction of coders without system re-design, allowing new coders to be added on existing technology as required to meet market needs

Technical Specifications

Architecture Overview

2 VoIP modules per card and 2 external 100 Mbps Ethernet ports

Supports fax relay via T.38, as well as fax and modem in either transparent or bypass configurations

Supports multiple resource profiles, defining the terminal capabilities for a VoIP endpoint
(each VoIP module is considered an endpoint), including:

— Maximum number of spans

— List of supported coders and packet rates

— Size of a channel's jitter buffer

— Size of a channel's echo cancellation tail length

— Features including fax, modem, or digit relay, and RTP redundancy Integrated Services

Coders

Selectable coders; G.711, G.723.1, G.726, G.729

Group 3 Fax Relay via ITU-T.38

DTMF digit relay via RFC2833

RTP redundancy via RFC2198

Adaptive jitter buffer

Echo cancellation (G.168 compliant)

Silence suppression

Comfort noise generation

Electrical Requirements

Supply Voltage, Vcc: 5.00 V

Supply Current, Vcc @ 5.0 V: 6.25 A (typical) with two modules; 4.5A (typical) with one module

Physical Specifications

Height: 236.2 mm (9.3 in.); 318.5 mm (12.54 in.) I/O card

Width: 317.5 mm (12.5 in.); 105.2 mm (4.14 in.) I/O card

Depth: 19.7 mm (.775 in.); 19.7 mm (0.775 in.) I/O card

Environmental Requirements

Temperature (Storage): -40°C to 70°C (-40°F to 158°F)

Temperature (Operation): 0°C to 50°C (32°F to 122°F)

Temperature Shock (Operation): 0°C to 50°C (32°F to 122°F) at 10°C/hr.

Humidity (Operating): 5% to 85%

Altitude: Up to 4,000m (13,123 ft.)

Licensing

Dialogic® IP Network Interface Series 3 Cards are available in one and two module options with licensing for incremental growth

Approvals and Compliance

For information about RoHS compliance and global approvals, contact your Dialogic sales representative.

Telecom Approvals

United States: FCC Part 15; CSA 60950-1-03

Canada: ICES 003; CSA 22.2 No. 950

NEBS: Level 3

European Union: CE Mark

Reliability/Warranty

MTBF information available upon request.

Warranty information at http://www.dialogic.com/warranties

Dialogic.

To learn more, visit our site on the World Wide Web at **http://www.dialogic.com**

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