

PABX SYSTEM

ECS-FD400

The ECS-FD400 is an advanced multi media integrated PABX system. The architecture of ECS-FD400 system is based on IP protocol and at the same time providing TDM circuits for legacy interfaces. It is fully compatible with the ECS-FD and FX family of PABX systems provided by BlueCom in the past.

The ECS-FD400 has been specially tailored for the communication needs of the utility, gas and transportation industry using pilot-wire, power line carrier, microwave, fiber optics SDH and PDH communication systems. Important features such as intrusion, forced release, alternate routing, compander and squelch on tie lines as well as flexible numbering plans are standard features available in the system.

Architecture / Technology

The architecture of the ECS-FD400 has been designed to full fill following main characteristics:

Modularity

A wide variety of different peripheral boards can be installed in the system.

Scalability

The system can be fully customized as per the clients specification. Only those modules required for a certain application need to be purchased.

Expandability

The system can be expanded by additional shelves (up to 8 shelves) maintaining unified level of services within a system.

Integration

The ECS-FD400 integrates traditional TDM functionality, VoIP/ToIP and messaging services in one unique communication system.

Applications

Thanks to open standards new third party applications can be developed and integrated into the ECS-FD400 communication system.

Availability

The CPU and power supplies can be duplicated to increase the availability of the system for critical applications in utility and transport networks.

Numbering Plan

Flexible numbering plan with up to 6 digits including incoming and outgoing numbering conversion to be completely flexible in any multi-site private network.

Capacity

Each rack has 15 free universal slots for peripheral boards. A maximum of 8 racks can form a system. Total 1512 VoIP ports and upto 2016 TDM circuit ports can be installed into one single system.

Maintenance

Boards are hot plugable without a major disturbance of telephone traffic. Software tools are delivered with the system to allow diagnostics and maintenance of the ECS-FD400. Standard in built test routines for fault detection, localisation, isolation and reporting of faults. WEB based management system and Real Time alarm management are application module which reduce maintenance cost.

Extension Interfaces

- Analogue line card with 16 circuits/board
DTMF Q.21 or decadic dialing
- Digital line card with 16 circuits/board,
2W proprietary protocol
- 4W S0 ISDN subscriber line board according to ITU-T Q.931
4 circuits/board

Inter PBX Tie-Lines

- Analogue tie-line 2/4W E&M
8 circuits/board
- E1 Interface with QSig
- 2.048 Mbit/s PCM-30 Interface according to ITU-T G.732

PSTN Interfaces

- Subscriber Signalling:
with 12/16kHz meter pulse detection and emergency switch over
8 circuits/board
- Channel associated 2Mbit/s
- ISDN Basic Rate 2B+D
- ISDN Primary Rate 30B+D

LAN Interfaces

LAN: Ethernet 10/100Mbit/s

IP Networks

Integrated gateway with voice and data transport, signalling on LAN and WAN based on MGCP and SIP standard.

VoIP features

- Integrated SIP server for SIP telephone extensions
- VoIP SIP or H.323 interconnection of PABX systems
- Allows SIP networking between PABX systems using QSig encapsulation
- T.38 Fax relay CODEC
- Standard SIP terminals can be connected to the system providing basic telephone features
- Proprietary HW/SW LAN extensions with full telephone features are available
- Backup of VoIP calls through ISDN/ PSTN network.
- Dual Homing of SIP/LAN Extensions



- Hybrid IP/TDM PABX system specially designed for utility, oil and gas and transportation networks
- Max. 1000 SIP and 2016 TDM ports in max 8 shelves
- Redundant CPU and power supplies
- Management System with SNMP
- 19" rack housing
- Low power consumption
- Integrated SIP Server



Touch Screen Console for Operators and Dispatchers



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