Compact PABX System ECS-FD2

The ECS-FD2 is a very compact PABX system which has the same features and facilities like the ECS-FD400. The ECS-FD2 has two slots available to install any peripheral card from ECS-FD400 multiservice PABX system. The architecture of ECS-FD2 system is based on IP protocol and at the same time is providing TDM circuits for legacy interfaces. It is fully compatible with the BlueCom ECS-FD and ECSF/FX family of PABX systems.

The ECS-FD2 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.

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

Integration
The ECS-FD2 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-FD2 system.

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
Maximum of 32 analog or digital extensions and 64 SIP or ToIP ports

Networking
The interconnection of ECS-FD2 with a ECS-FD400 can be done through LAN/WAN network. To connect to a SDH networks BlueCom can provide an E1 connection using a router interface.

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-FD2. 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

- Remote Subscriber Box with 2 slots
- Max. 32 TDM ports and 64 SIP or ToIP ports.
- Management System with SNMP
- 19" rack housing
- Low power consumption 60W
- Integrated SIP Server

Netfon 100
LAN telephone set with integrated 2 port 10/100Tx switch

Netfon 300
LAN telephone set with integrated 2 port 10/100Tx switch

Netfon 500
LAN telephone set with integrated 2 port 10/100Tx switch

BLUECOM
Telecommunications

For further information please contact:

BlueCom AG
Giessenstrasse 15
CH-8953 Dietikon
Switzerland
Tel.: +41 44 748 48 18
Fax: +41 44 748 48 19
E-mail: sales@bluecom.ch
Internet: www.bluecom.ch

PABX SYSTEM
ECS-FD2

Capacity
2 universal slots
for a total of 64 VoIP and 32 TDM ports

Power Supply
The ECS-FD2 can be powered from a
48V DC power supply:
Input voltage range
Battery: 48 VDC, 42 - 58 VDC

For 220V AC supply an external
converter can be provided.

Power Consumption
60W max.

Customer Data Back-up
Customer Data is stored in EEPROM

Ambient Conditions
Operating range : -5° to +45°C
Transportation
and storage : -25° to +55°C
         Humidity
(non condensing) : 5 to 90% Rh

Electromagnetic Compatibility
The ECS-FD2 system conform to
the European Community recom-
mendation EMC 89/336/CEE
and to the following European
standards:
EN 50082-1 (IMMUNITY)
EN 55022 (RADIO FREQUENCY)
EN 60950 (ELECTRICAL SAFETY)

Mechanical
Dimensions 19" rack
(h x w x d)   : 50 x 483 x 380 mm
                 (1HE units)
Weight: 4.5kg

System Services
- Abbreviated Dialling
- Add-On Conference
- Attendant Call Distribution
- Automatic Call Back
- Automatic Hold
- Automatic Line Blocking
- Break In
- **CLIP on analog phones**
- Callback on no reply
- Call for assistance
- Call waiting
- Direct Dialling In
- Direct Dialling Out
- Distinctive Ringing
- Do Not Disturb
- Enquiry
- Extension/Attendant
- Class of Service
- **Forced Release**
- Hot Line Call
- Hunt Groups
- **Intrusion**
- Last Number Redial
- Line Bundle
- Paging Service
- Section Dialling

Digital Telephone Services
- Automatic Answering
- Caller Name and
  Number Display
- Class of Service Display
- Dialled Number Display
- Function Keys
- Hands-Free
- Loudspeaker
- Priority Trunks
- On Hook Dialling
- Telephone Diagnostics
- Time Display

Data Services
- Automatic Answering
- Automatic Callback
- Automatic Line Blocking
- Dialling from Telephone and
  from Terminal/Host
- Direct Internal Call
- Flexible Data Numbering Plan
- Forwarding

Special Services
- Auxillary Alarms
- Detailed Billing
- Equipment Diagnostics
- External Alarms
- Local / Remote Supervision
- Major and Minor Alarm Signals
- Remote Configuration
- Remote Maintenance

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