



FHX 1000 Series – Integrated Access Device (IAD)

Introduction:

FHX 1000 Integrated Access Device (IAD) is located at the edge of the access-layer of next generation networks. It offers 1-48 FXSs and optional down-interface of Ethernet to user, and optional ADSL, FXO or up-interface of Ethernet. FHX1000 abides by the international standards, and can provide the users with multiple kinds of access services, so it is able to meet the needs for integrated access services of voice/facsimile/data, etc.

Features:

- **Features of Hardware**
 - Polarity reversal
 - Common signaling(Facsimile/Modem) detecting
 - Internal exchanger/extension relaying
 - Dynamic modes of encoding and decoding switching
 - Support fleeing-port
 - Support incoming call display and VLAN
- **Features of Software**
 - Support multiple standard protocols, strong interconnectivity
 - Support T.38/T30 Facsimile
 - Distributed architecture of software design, facilitating upgrading and the expansion of new services
 - Support voice QoS, ToS
 - Offer multiple network management interfaces, convenient to manage and maintain



Functions:

- Call Processing: Support call control, DTMF
- Media Control: Resource processing, encoding and decoding
- Voice Processing: Echo Erasion (ECE) and quiet voice suppression
- Services Support: Voice services and data services
- Protocol Processing: Media control protocol and TCP/IP protocol stack
- Media Stream Reflection
- Maintenance and Management

Interfaces:

- Up-interface: XDSL, FXO, Ethernet 10/100M Base-T interface
- Down-interface: FXS, Ethernet 10/100M Base-T interface
- Network Management interface: RS232, Ethernet 10/100M Base-T



Technical Specifications:

- Control Protocol: SIP,H.248/MEGACO, MGCP, H.323
- Voice Coding: G.711,G.723,G.729a
- Facsimile Protocol: T38,T30
- Management Protocol: SNMP,FTP,TFTP,WEB
- Network Protocol: IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1q/1p/1d etc.
- Voice Technology: Comfortable Noise Generation (CNG) , Echo Erasion(EC), dynamic jitter cancellation
- Voice Objective Evaluation: PSQM average<1.5
- Voice Subjective Evaluation: up to the level of MOS 4.0