



# S.G. INTERNATIONAL GROUP H.K. LIMITED

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### ➤ 3Anet-10K (Multi-Operation Access System)



#### [ 3ANET-10KMULTI-OPERATION ACCESS SYSTEM ]

- In recent years, the communication technologies have been promptly developed. Industries have been more relied on communication services. The industry users have developed from simple voice communication to various requirements in voice communication, data services and video services. Integrated services access system improves the situation that various networks have to be built for different access needs. However, most of the existing integrated services access systems are designed for China Telecom and lay particular stress on voice access and less on broadband data access, which can not meet the need of specialized network communication
- A unify access and management integrated solution with low cost are needed urgently by specialized network users. Responding to this market our company brought out 3A-NET 10K system. The system use a transmission platform to realize narrowband access such as voice and real time data and broadband access such as video and Ethernet, fulfilling the requirements of administration phone, attempter, data monitor, special data line, remote control, video monitor, video conference, MIS system interconnects, ADSL and VDSL broadband access. The system has high cost/performance both in complex networking and simple PCM cross applications for its simple structure, low cost, full functions, and unique network management.
- The system is an ideal choice for building communication network of railway, power, coal, oil, metallurgy industry.



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### ➤ 3Anet-10K (Mult-Operation Access System)

#### ■ OVERVIEW

●the system consists of the central module and local module. A central module can control up to 96 sets of local modules, each of which has up to 128 ports. The central module and local modules are connected by a set of transmission equipments (internal SDH or existing transmission networks) to form a complete set of specialized communication system.

●The local module provides various interfaces needed in specialized communication:

●Interface for phone

●Interface for ISDN

●Interface for Console Desk

●Interface for video conference

●Interface for image monitor

●Interface for various narrowband data (PCM multiplexing)

●Interface for 10/100M Ethernet

●VDSL broadband access

●Interface for two-fiber loop trunk

●Interface for E/M trunk

●Central Module provides following interfaces

●Interface for 10/100M Ethernet

●V5.2 Interface

●NO.7 Interface

●NO.1 Interface

●Interface for two-fiber loop trunk



Central Module



Local Module

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#### ■ FEATURES

Integrated access: integrating access of voice, data, and image. Except for switching services, it can also provide leased line service, video service (video conference, CATV, VOD etc.), LAN and other data services cannot provided by switch (such as sub rate lower than 64k).

Low requirements of environments: No need of strictly required machine room. It can be placed at anywhere even outdoors. No need to configure the data which can lower the maintenance cost.

Conveniently upgrade: The optical transmission system uses unique motherboard, through which user can upgrade the SDH/155M system to SDH/622M system. The central module and local module can be upgraded independently which makes it flexible to introduce new services.

·Complete network management: Complete network management system to provide centralizing maintenance, environment monitor and line test for the equipments in access network. Connect to network management center of the province and region through corresponding protocols.

·Perfect signaling interface: No need to modify the hardware when connecting with switch through 2-fiber analog trunk, V5.2 interface protocol, No.7 signaling or No.1 signaling, only change the version of software. Promote the reliability without using any signaling conversion equipments.

·Flexible networking: For the connection between central module and local module uses standard circuit interface to apply to copper cable, copper line, microwave, HDSL, optical fiber etc. There is no difference in the distance between central module and local module, only difference in transmission media.

·High reliability design: CPU, power supply, clock and communication equipments can provide warm backup to ensure the reliability of the system. The system can auto detect each unit to switch to backup unit when observing a fault, and send a fault report to network management system.

·Good lightning proof: Except for over voltage and over current protection in user line to meet the requirements of K20, the system also adopts advanced lightning proof measures in AC in-line, second power supply and each board.

#### ■ FUNCTIONS

·Voice services

Administration Phone

Users of the local module can perform auto dialing and flexible coding(3-7 digit).Each local module can provide 2-fiber loop trunk to connect to local switch; provide E/M trunk to connect to other specialized network equipments. Central module provides V5.2, No.1, No.7, 2-fiber loop trunk to connect to upper level switch.

With full configuration of one set of 3Anet-10K, it can provide 10 thousands voice interfaces. Each service point can configure the board type and number according to the number of users without worrying insufficient capacity.



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#### • CONSOLE

The central module and each local module can connect two console desks. You can use specialized console desk or use PC or Caller ID phone as console. It has multiple attempter functions such as break-in, group broadcasting, multicast, conference, recording, Night service and monitoring.



#### • CONFERENCE CALL

multiple conferences can be hold in the system at the same time. Conferences between different modules also can be hold.

#### • Narrowband data services

Provide interface for ISDN, V.24, V.35 etc., in which ISDN including 2B+D and 30B+D, V.24 including 2.4K, 4.8K, 9.6K, 19.2K, V.35 including 64K and N×64K (N=1~30).

#### • Video services

#### • Video Monitor

you can install multiple video monitor terminals in each local module, the control part of which can be chosen from central module or local module. Protocols such as H.323, H.320, H.245, and MPEG-4 can be used in the system.

#### • Video Conference

The video conference function in the system uses video cooperation solutions based on TCP/IP, meeting the H.323 and T.120 standard. Using MPEG-2 compressing technology, the image can reach the level of broadcasting. Through the Ethernet interface a specialized LAN for conference can be composed to transmit the media flow by multicasting method. No matter how many users of the conference, the sender only occupy one channel which save the network resources. There is no limit of number of conference, users can hold a conference temporarily or join in at anytime

#### • Broadband services

the transmission equipments of the system provide standard Ethernet interface for networking of PC and leave out the bridges previously used in the specialized net- works. The system uses the policy of sharing bandwidth by multiple points to avoid wasting of bandwidth when two points are engaged. The bandwidth occupied by Ethernet is  $N \times VC - 12$   $N=(1-10)$  (2M-20M) or  $N \times VC - 3(N=1,2)$  (45M-0M). The system also provides ADSL and VDSL access services. When only PCM is needed, the system can be configured to PCM structure with the same price as normal PCM to save the cost. When user needs to develop new services, only need to add corresponding interface board. The solution can protect the original investment and save the new investment.