Specification

Maximum Ports	40	64	80	160	240	320	400	480	560	640
Cabinets	1	1	1	2	3	4	5	6	7	8
Extensions	32	48	80	160	240	320	400	480	560	640
Outside Lines	32	32	54	108	162	216	255	255	255	255
Outside Slots	2	4	5	10	15	20	25	30	35	40
PSTN Lines	16	32	40	80	120	160	200	240	255	255
ISDN BRI	6	6	6	12	18	24	30	36	42	48
ISDN PRI	1	1	1	2	3	4	5	6	7	8
T1 or E1	1	1	1	2	3	4	5	6	7	8
VoIP Slots	2	4	5	10	15	20	25	30	35	40
Keyphones	32	40	80	160	240	320	400	480	560	640
SLTs	32	40	80	160	240	320	400	480	560	640
ACPs	32	40	80	160	240	320	400	480	560	640
Voice Service slots	1	1	2	4	5	7	9	11	13	15

GDS Cabinet

DK1-21（B）

DK1-DSS（B）

DK1-21（W）

DK1-DSS（W）

Note:

1. Above capacity shown as the maximum figure, due to the limitation of available slots, the exact capacity will be dependant on how many slots are available for each interface.
2. Extensions means the maximum number of extensions.
3. Outside Lines means the maximum number of outside lines, that is the combination of E1 or T1 plus ISDN(BRI, PRI), PSTN Lines.
4. Outside Slots means the available slots for PSTN, ISDN, T1/E1, VoIP.
5. One ISDN BRI has 2 outside lines
6. One ISDN PRI has 30 outside lines
7. One T1 has 24 outside lines.
8. One E1 has 30 outside lines.
9. One VoIP has 2-3 channels.
10. One Voice Mail Slot has 4 channels.

DK2-21（B）

DK2-DSS（B）

DK Series

DK1-21	Handsfree, LCD Display
DK1-DSS	60 Buttons Direct Station Selection
DK2-21	Handsfree, Large LCD Display
DK2-WHP	Wireless Headset for DK2 Handset
DK2-DSS	66 Buttons Direct Station Selection
DK3-21	Handsfree, LCD Display
DK3-33	On-hook Dial
DK-ACP	Access Control Phone
DK-DPU1	One Button, Weatherproof Doorphone

DK2-21（W）

DK2-DSS（W）

DK3-21 (B)

DK3-21 (W)

DK3-33 (B)
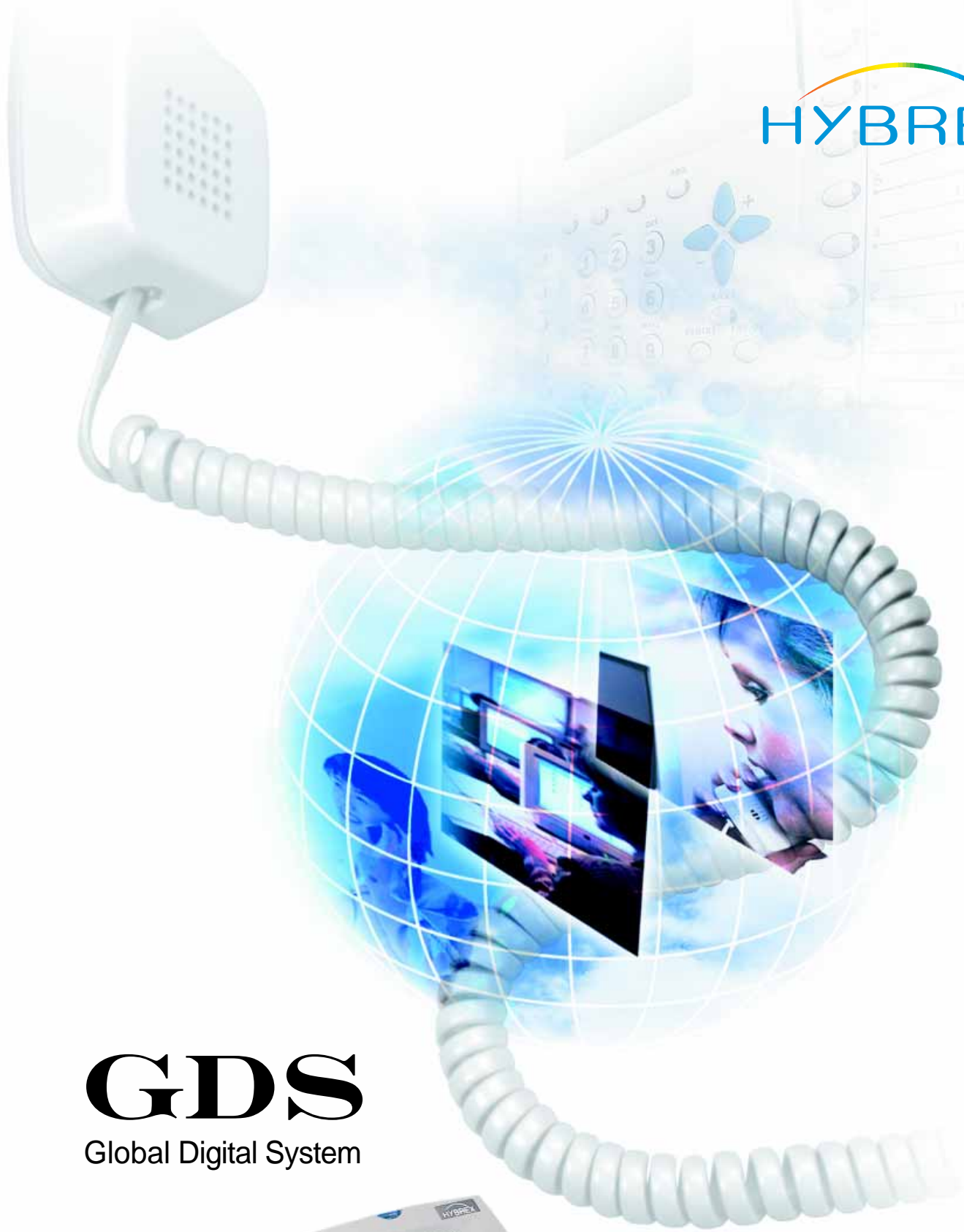

DK3-33 (W)

DK-ACP

DK-DPU1

HYBREX Partner:

Design and specifications are subject to change without notice. All brand names and trade marks are the property of their respective owners.
P/N: 5703 5300 1000

P8-GWD
GSM Router

DK2-WHP

HYBREX

GDS

Global Digital System

64 TO
640 PORTS

The Wise Investment Choice

GDS - The platform for today and tomorrow

GDS (Global Digital System) is a feature-rich platform that meets existing telecommunication requirements and offers future-proof migration solutions. The system provides external interfaces to PSTN, ISDN (BRI, PRI), E1/T1, DID, E&M and VoIP via the Internet, along with feature-packed digital keyphones, traditional analog and wireless-handsets. The GDS Series integrates seamlessly with many application programs to diversify itself to an advanced Communication System Platform. The versatility of the GDS System permits it to adapt to future Internet-enabled technology for voice, data and security applications. This integrated IP-based capability protects your investment and ensures a wide range of options for expanding your information and communication infrastructure as your business grows.

Teamwork makes the difference

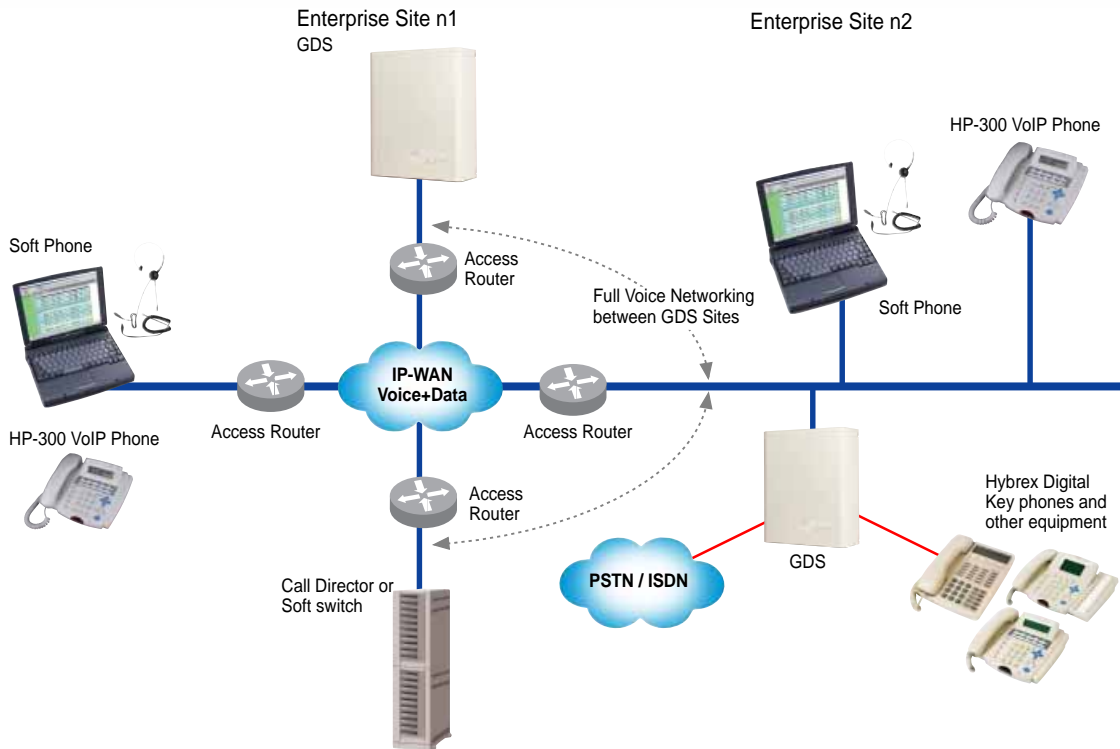## IP-CTI (IP-based Computer Telephony Integration) technology

Intranet and Internet are utilized more than ever and will soon be a standard media for the exchange of information. With GDS CT Star software, bundling many applications, to streamline team processes and raise productivity is a reality.

With IP Connectivity, users can retrieve their Voice Messages from their own desk or wherever they are. Check your colleague's attendance status and his or her absent message, leaving and reviewing your messages, monitoring company call traffic and total call cost on line. GDS gives your team members many imaginative ideas to work with.

Voice Over IP & Virtual Private Networking

Enterprise Site n1
GDS

Enterprise Site n2

HP-300 VoIP Phone

Soft Phone

Access Router

Full Voice Networking
between GDS Sites

Soft Phone

IP-WAN
Voice+Data

HP-300 VoIP Phone   Access Router

Access Router

Access Router

Hybrex Digital
Key phones and
other equipment

Call Director or
Soft switch

PSTN / ISDN

GDS

Bypass toll charges between locations and more....

Leverage the power of DSL and Cable Modem technology along with the GDS Series VoIP solution to create a Virtual Private Network between office locations.

By using the in-skin VoIP Trunks (G2-VIU) you are in business!

Executives and remote teleworkers can access the VPN from their home office by using the HYBREX VoIP telephone set!

G2-VIU Card

Installs inside HYBREX
GDS Series System.
Provides 3 VoIP channels

HP-300

Supports SIP, MGCP. 1 RJ-45 port

Make sure you have

The Companion Software

CT Star - The Internet-based software package

CT Star is a software package containing multiple applications. The most important and advanced feature is " Every application is Internet-based design" - You can access your data from anywhere via an Internet connection. It is particularly useful for maintenance or servicing. The service center can access your data with your permission and then check your settings, and tune your configuration immediately.

SM (System Manager)

This application provides detailed information of all the programming settings in the GDS. It offers a wizard-like function to sort out all parameters related to specific applications, so technicians can click the required item to check, modify and then update directly to the GDS. The software is packaged with the system for remote programming and maintenance purposes. When the customer needs programming changes, the technician can remotely modify the GDS's settings via modem or Internet connections, thus providing the best and quickest service for the customer.

AM (Access Manager)

This application is designed to configure the operation of the Access Control Phone and it's related functions. It offers proximity card, assigns access capability - time schedule and which door can be accessed for each card holder; the name of each door plus monitoring the access status of the system. It can also be used to email a regular report to a specific person or the administration centre within the organization. When needed, it can be used to trace what time, which door was accessed by which card's holder.

HYBREX
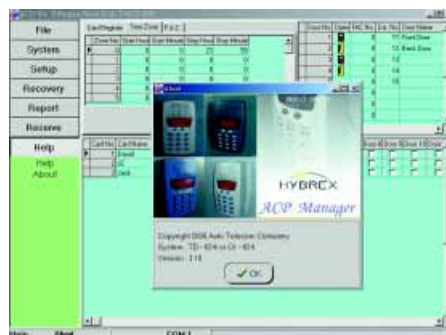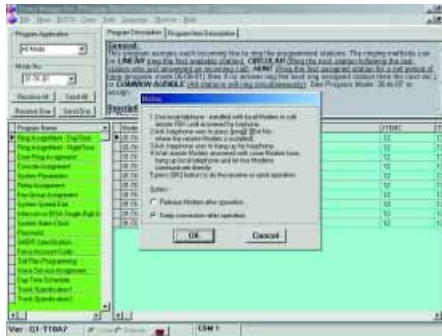
CAS (Call Accounting System)

This software is particularly useful for legal, telemarketing, call center and other consulting businesses. Call Accounting is a feature that allows you to record account numbers as calls are made or received. Through these account numbers, call costs, plus your service rate, can be allocated to nominated clients or cost centres within your organization to accurately track telephone-related expenditures or for billing purposes.

To meet the new demand for different carriers, 10 carriers maximum can be assigned by their unique leading digits, so CAS can tell you which carrier has been used for individual calls.

CM (Contact Manager)

This application is dedicated to allow all users the capability to utilize computer telephony features with the GDS. It offers PC phone type functions- place call, answer call, transfer, hold, queue for lines and more. Short Message is a handy tool that you can use to send or receive short messages with your colleagues. Screen pop is a must have feature working together with Caller ID. Call History lets you recall someone who has just been called, Missed Call lets you call back missed calls when you return to your desk. Name Dialing is available for intercom and outside calls. Extension information lets you see the called party's absent message and current call status. Phonebook for Public- common speed dial for system wide use; or Phonebook for Private- your personal contacts information. All the above information is stored on the server, so you can use any PC to login with your name and password and then access your private phonebook. The Private Contact information can be imported from MicroSoft "Outlook", so, you don't need to re-type it.

Features you should compare with....

ISDN Connectivity (BRI and PRI)

ISDN has been proven as the way of the future for many office applications and can give real benefits to your business:

Sound quality improved through digital voice transmission.

Multimedia access using voice and data transmission.

ISDN will also provide you with additional benefits:

MSN (Multiple Subscriber Number) or **DID** (Direct Inward Dial)- allowing incoming callers direct access to extensions, without going through the switchboard.

Caller ID (Calling Line Identification) - allowing you to identify the originating number of incoming calls from the ISDN network.

AOC (Advice of Charge) - at the end of each call, your phone display will show the exact call cost (subject to network provider)

DIA (Direct Internet Access) capability

The GDS Built-in **LAN Management Unit**, provides a powerful path for accessing the database of the KSU via IP addressing, exchange data and commands from an external **CT server**, send a Voicemail to your Mailbox to fulfill the **UMS** (Unified Messaging) requirement. Although the GDS has a high speed (56K maximum) COM port to communicate with external devices, this LAN interface (10/100Base T - dual/fast Ethernet) is dedicated for the higher speed required in some advanced features, such as Voice Messaging and Image transfer.

This **DIA** capability also enhances customer service. The service center can handle inquiries or requests faster, more efficiently, and more cost-effectively

Built-in Auto Attendant and Voicemail

Auto Attendant and Voicemail are practical commodities for all modern communication systems. But external devices can give slow response times for handling of incoming calls. The GDS built-in Auto Attendant and Voicemail knows the status of all stations without the checking procedure required by external devices, that is why the GDS can react quickly to serve your customers more efficiently. Being built into the KSU, it can send voice messages to any mailbox and can be used for automatic backup purposes.

Caller ID for traditional Single line stations

CLI (Calling Line Identification) capability is a common requirement for most customers, viewing the CLI through the LCD display on the Keyphone is a good feature, but the CLI information can also be received by the CLI standard phone at the SLT (Single Line Telephone) interface. The GDS not only transfers the external CLI but also shows you which extension is calling you during intercom calls.

Message Lamp on Single Line stations

The GDS can generate industry standard message waiting signals to light the message lamp on single line telephones, ideal for the hospitality industry or for voice messaging applications using inexpensive analog type telephones.

Power failure protection

In the event of a power supply failure, the GDS system will continue normal operation for an hour or more running on standard batteries. Without batteries, or when the batteries are exhausted, the system, by configuration, will automatically route calls to single line telephones, so that communications can continue. When the power is restored, the system will revert to its normal connections.

Paging, Music On Hold, Background Music

The GDS allows all types of extensions to access a variety of paging types. Internal paging through the speaker of Keyphones and Access Control Phones. External paging through an external PA system. MOH (Music on Hold) to allow outside callers to listen to music when put on "Hold". The advanced built-in Voicemail Unit can hold recordings of desired music or messages for different groups of outside lines. BGM (Back Ground Music) is a benefit feature for an employee to listen to music when a Keyphone is idle.

Access Control Phone

The ACP (Access Control Phone) provides an audio path to extensions or external lines, RFID detector for proximity card, relay to open the door or activate a siren and a sensor to detect alarm status. It has many different combinations, such as a door phone at front or back door, normal wall mount phone with handsfree answer back, two-way speaker, security control panel and access control device. Many new devices are being developed: Image Capturer and LCD Imaging Monitor to work in concert with the ACP .

GDS Applications:

Multi-national Organization

VPN on VoIP - One number for all members world wide within the organization.

Hotel

Offering CID, Message Lamp to the room. ACP for VIP rooms or floor control. CT Star software for the operator to check guest information, room status, leave messages. ACP as a door phone for guests to answer the door without opening the door; large LED display for showing status of DND or "Clean the room" outside the door. An ACP can also be used as a keyless entry system and/or door open alarm.

Clinic or Hospital

ACP works as a two-way speaker for nurse and patient, patient monitoring, doctor's wall mount phone to auto answer the call without touching any buttons.

System Features:

1. Account Code Capability
2. Alarm - Station
3. Answer Call Waiting
4. Automatic Answer-Intercom
5. Automatic Attendant *
6. Automatic Call Back (Camp-On)
7. Automatic Line Access
8. Automatic Redial
9. Data and Time backup without Battery
10. Day and Night Service
11. Call Waiting
12. Call Transfer
13. Call Forwarding (Follow Me)
14. Camp On
15. Conference for more parties
16. CLI on both External and Internal Call *
17. CTI Integration *
18. Check in and Check Out
19. DID Trunk *
20. Direct Call Pickup
21. Directory Dial for Speed Dial
22. Direct Inward System Access *

23. Distinctive Dial Tone and Ringing
24. Doorphone Calling and Opening *
25. Executive Override (Barge-In)
26. E & M Trunk *
27. Flash (Open Loop Timed Flash)
28. Hunt Group
29. Last Number Redial
30. Line Reverse Detection
31. Lock / Unlock Extensions
32. Multiple Music On Hold *
33. Macro Keys
34. One Touch Dialling
35. Paging / Meet-Me Page
36. Privacy Release
37. Programmable Keys
38. Security Code
39. SLT HOLD Operation
40. System Speed Dial and Personal Speed Dial
41. SMDR Buffers
42. Toll Restriction
43. Voicemail Integration *
44. Wake Up Service *

Display Features:

1. Account Code Display
2. Absent Message Display
3. Call Duration Timer
4. Call Processing Information
5. CLI or Caller ID Information *
6. Called Extension Name Display
7. Conference Information
8. Date and Time Display
9. Dialed Number
10. Call Log Information
11. System Programming
12. Enhanced Station Programming
13. Message Waiting Caller Information
14. Name of Outside Caller
15. Override Identification
16. Soft Keys

∗ : optional: Extra cost equipment may be required for this feature.