



Strata® CIX Product Bulletin

PBCIX-0032A
November 21, 2006

Announcing Strata CIX40 Small Business Solutions with Strata Net and VoIP

This bulletin is a reissue and supersedes the Product Bulletin PBCIX-0032 issued August 18, 2006.

The Strata CIX product family of IP communication systems has a new member, bringing powerful IP telephony and Strata Net networking capabilities to small customers and branch office locations. The Strata CIX40 is a richly-featured, competitively priced small system ideal for the small business market segment.

A powerful new voice mail designed specifically for it? Of course! A new, equally feature-rich, competitively priced, 4-port, 40-hour integrated plug and play Toshiba Voice Processing system (GVPH1A) with built-in modem plugs into the Strata CIX40 cabinet.

This integrated combination of the Strata CIX40 and GVPH1A is one of the most powerful and cost-effective small business solutions in today's market.

Also new is a flexible IP interface designed exclusively for CIX40. The new GIPH-X1A card supports 8 IP channels which can be flexibly configured for Strata Net networking channels, IP telephones, SIP phones and Soft IP telephones.

The CIX40 is easy and very cost effective to install. The CIX40 and GVPH1A voice mail system are preprogrammed to match all related parameters. This includes station numbers, mailboxes, voice mail hunt groups, voice mail station IDs and more. The default program data is set when the processor is initialized even if the expansion cards or GVPH1A Voice Mail system is not installed prior to system initialization.

The CIX40 does not require processor licenses for analog Caller ID CO Lines, Voice Mail ports, digital or analog station ports, DTMF Receivers, etc. The only licenses needed are for IP Strata Net networking channels, Toshiba IP telephones, SIP phones and Soft IP telephones connected to the GIPH-X1A.

KSU Cabinet

The Strata CIX40 is a compact, single-cabinet system that is designed for wall mounting and occupies very little space. All standard and optional expansion components, including the GVPH1A voice mail card and GIPH1A IP card, plug into the CIX40 cabinet (CHSU40A).

The CIX40 cabinet has three dedicated slots used for the GCTU2A system processor card, the optional GVPH Voice Mail circuit card, and the optional GIPH-X1A IP interface card. All other CIX40 optional interface



© Copyright 2006

Toshiba America Information Systems, Inc.

Telecommunication Systems Division

9740 Irvine Blvd, Irvine, CA 92618-1697 (949) 583-3700

www.telecom.toshiba.com

cards plug onto the processor or the motherboard. The CIX40 does not support CIX670/200/100 circuit cards.

The CIX40 comes with built-in circuitry for eight digital telephone ports, three CO line ports with Caller ID Interface, one standard telephone port, one power failure transfer relay, as well as the interfaces built on the processor listed on the next page.

The Strata CIX40 system capacity can be expanded by adding the following expansion components:

- 3-Loop Start CO lines with Caller ID interface and 8-Digital Station Interface (GCDU2A).
- 1-port Analog Standard Telephone Interface (GSTU1A).
- 8-channel IP Interface with LAN NIC (GIPH-X1A).
- 4-port RS-232 Serial Interface (BSIS1A).

The fully expanded CIX40 system provides the following capacities:

- 6 loop start CO line ports with Caller ID.
- 16 digital station ports.
- Two standard telephone ports.
- 8 IP channels for IP telephone or Strata Net connection.
- 4 voice mail ports with 40 hours of message storage and 374 mailboxes.
- 4 serial interface ports.



Processor

The Strata CIX40 processor (GCTU2A) is a standard part that is shipped in a separate box. The GCTU2A processor plugs into a dedicated CIX40 cabinet slot.

Note: The CIX40 cabinet and GCTU2A processor are boxed separately. The cabinet and processor are also warranted and repaired individually.

The Strata CIX40 uses a high-speed 32-bit RISC processor, DRAM working memory, SRAM with lithium battery to back-up memory.

The Strata CIX40 processor has the following standard components built-in:

- Secure Digital (SD) memory card interface for program data backup, software upgrades, alarms, error logs, and admin logs done locally or remotely.
- Network Interface Card port provides one circuit for 100base-TX Ethernet LAN connection of the eManager computer, ACD Server, CIX Attendant Console, and CSTA applications.

- 33.6 Kbps/V.34 AMDS1A maintenance modem equipped at the factory for connecting the eManager administration tool locally or remotely.
- One Music-on-hold (MOH)/Background Music (BGM) RCA jack to interface with external MOH and/or BGM sources. The CIX40 can have up to three MOH/BGM source interfaces by adding two additional MOH/BGM input sources, connected to the Standard Telephone interfaces.
- One External Page RCA jack to interface with a Toshiba External Amplified Speaker control box BESC1A with a customer supplied speaker or a customer-supplied page amplifier and speaker(s) for external paging, night ring over external page, and external BGM applications.
- One Relay control interface that provides an interface to a normally open relay contact which can be programmed to control a Night Bell, door lock or to mute BGM during an external page.
- Memory Protection Battery that protects data and the customers programmed configuration from memory loss. This information will be maintained in a powerless system for at least six years.
- 16 DTMF receivers.
- 16 Busy Tone (BT) detector circuits for Auto Busy Redial (ABR).
- 64 conference circuits.
- Digital volume PAD technology enables audio volume to be adjusted in eight steps to compensate for conference and/or CO line network losses.

The optional Serial Port Interface Subassembly (BSIS1A) can be installed on the processor to provide RS-232 interface ports for SMDR interface to Call Accounting devices, SMDI for external Voice Mail devices, and future applications. The BSIS1A is not needed for the GVPH1A voice mail system because the GVPH1A uses built-in SMDI through the back plane.

Integrated Voice Mail (GVPH1A)

With the release of Strata CIX40, Toshiba is excited to introduce a brand new plug and play voice mail circuit card (GVPH1A) specifically for the Strata CIX40 cabinet. It provides comprehensive Auto Attendant/Voice Mail capabilities, including the following:

- 4-Voice Ports.
- 40 hours voice storage or up to 10,000 total messages.
- 374 mailboxes.
- Voice Mail Call Monitor – answering machine like operation to monitor and optionally pick-up a call when someone is leaving a voice message.
- Voice Mail LCD Feature Prompting with Soft Key Operation.
- Call Record – enables the user to record live calls.
- Installs in a dedicated CIX40 cabinet slot with SMDI integration built-in on backplane – no serial port or other interface hardware is needed for interface or for its full set of features.
- Built-in remote maintenance modem.
- Administration requires the GVPH1A UADM2 Administration Software.
 - This is a new version of Strategy Admin that includes a new software version program update and prompt update capability for remote maintenance.
- Pre-programmed with default mail boxes that match CIX40 default stations numbers, adding simplicity to any installation.

Battery Backup

For battery backup applications, the optional Battery Backup Module (HPFB-6) can be added. Either one or two of these modules can be attached to the CIX40. Up to three hours of uninterrupted service can be provided if the AC power is lost or disconnected from the system.

Telephone and Console Support

The Strata CIX40 supports all current Toshiba 2000-series, 3000-series and 3200-series digital telephones, including the DKT3207-SD (W) and DKT3207-SD 7-button models, Add-on Module, DSS Console, DKT2x04-CT cordless phones, CIX Digital and IP Attendant Console, and analog single-line telephones (2500-sets). These devices do not require a license on CIX40.

The Strata CIX40 supports Toshiba 2000-series IP telephones, SoftIPT soft phones on laptops and PDAs, and SIP telephones. Each device requires an IP end point license on CIX40.

The Strata CIX40 does not support analog electronic telephones (6500-series, 6000-series, etc.).

Features

The Strata CIX40 uses Release 4.12 software which is based on Strata CIX100, CIX200 and CIX670 with R4.10 software, so functionality and features are the same between them, with some exceptions that are listed below.

The Strata CIX40 does not support the following capabilities:

- T1, PRI and BRI digital trunk interfaces.
- DID, Ground start and Tie line analog trunk interfaces (supports Loop start with Caller ID).
- Dialed Number Identification Service (DNIS).
- Zone Page Interface.
- Analog station Caller ID, Message Waiting lamp control and Off-Premise stations.

The Strata CIX40 supports the following capabilities that are not supported on the CTX28:

- Strata Net Multi-system Networking.
- IP Telephones.
- Speaker Off-Hook-Call Announce is supported on IP Telephones only and requires an additional IP channel but not an additional End Point license. The additional IP channel used for Speaker OCA is only active during an OCA call and it can be shared by multiple IP telephones (first come-first served).
- Handset Off-Hook Call Announce is supported on Digital and IP telephones and does not require additional ports, channels or licenses.
- Transferring Conference Calls to Voice Mailboxes.
- NIC port built-in on the processor.

Installation and Programming

The CIX40 is easy and very cost effective to install. The CIX40 does not require processor licenses for CO Lines, digital or analog station ports, DTMF Receivers, etc. The only licenses needed are for IP telephones and Strata Net networking channels.

Installation time is very efficient because of the default plug and play configuration that integrates and matches the CIX40 telephone program parameters and GVPH1A voice processing program parameters.

A new version of eManager 4.12A05 or above is required for CIX40 and is available on Internet FYI that supports all Strata CIX and CTX systems. Previous versions of eManager do not support CIX40. The CIX40 software R4.12 is based on the CIX100/200/670 R4.10 software so the database programming is the same.

System Configuration

Strata CIX40 configuration guidelines are provided below.

- Default data to initialize and match CIX40 extension numbers with GVPH1A voice mailboxes. So the system is ready for use when it is powered up the first time.
- Supports all CIX Release 4.10 features, except T1, PRI and BRI digital trunk interfaces, DID, Ground start and Tie line analog trunk interfaces (supports Loop start with Caller ID), DNIS, Zone Page Interface and analog station Caller ID, analog station Message Waiting Lamp Control and analog station Off-Premise stations.
- Fully Licensed for: 28 TDM ports, 4 RS232 ports and 16-DTMF/ABR circuits. Licensing is only required for Strata Net networking channels, IP telephones, SIP phones and SoftlPTs.
- Maximum Capacity: 16 Digital telephones, 6 Loop start lines with Caller ID Interface, 2 Standard telephone interfaces, 4 Voice Mail ports, 8 IP channels, and 4 RS-232 Serial Interface ports.
- Digital Telephone Compatibility: Supports Toshiba DKT3207-SD (W) and DKT3207-SD 7-button digital telephones and all other 3000-series and 3200-series digital telephones, Add-on-Modules and DSS consoles.
- IP Telephone Compatibility: Supports all Toshiba 2000-series IP telephones, Add-on-Modules and DSS consoles, SoftlPT soft phones on laptops and PDAs, and SIP telephones.
- CO Line Compatibility: Loop start lines with or without Caller ID.

Strata CIX40 non-compatibility:

- T1 and ISDN PRI/BRI digital trunks.
- Ground start, DID, and Tie line analog trunks.
- Analog station Caller ID, Message Waiting Lamp Control and Off-Premise stations
- CTX28 circuit cards GCTU1A, GCDU1A, GVMU2A and all CIX100/200/670 circuit cards are not compatible CIX40.

GVPHU1A Voice Mail (optional plug in voice mail card):

- 4 ports, 40 hours storage or up to 10,000 saved messages, 374 mailboxes.
- Works similar to IVP8R2 with additional features of Voice Mail Call Monitor, Voice Mail LCD Feature Prompting with Soft Key Operation, and Call Record.
- Plugs into CIX40 dedicated cabinet slot.
- SMDI integration built-in on back plane – no serial port or other interface hardware needed.

- Built-in remote maintenance modem.
- Administration requires the GVPH UADM2 Administration Software.
- Default mail boxes that match CIX40 default stations numbers, adding simplicity to any installation.

Table 1 CIX40 System Configuration

Basic Configuration – No Licenses Needed	Basic Capacity
CHSU40A Cabinet, includes Power supply and Mother Board. The GCTU2A processor is required and boxed separately from the CIX40 cabinet. The cabinet and processor are also warranted and repaired individually.	3 CO line w/CLID, 8 Digital Telephones and 1 Standard Telephone. Includes: 33.6 Kbps/V.34 Maintenance Modem, Page interface, MOH interface, Control relay, 16 DTMF/ABR circuit, 1 Power Failure Transfer interface, NIC port for 100base-TX Ethernet LAN connection of eManager computer, ACD Server, CIX Attendant Console, and CSTA applications, and a Secure Digital card interface.
Expanded Configuration – No Licenses Needed	Expanded Capacity/Feature Option
Add – GCDU2A (3-CO line/8-DKT expansion card)	6 CO line w/CLID, 16 Digital telephones, 1 Standard telephone (total)
Add - GVPH1A (voice mail plug-in card)	4-port Toshiba Plug-in Voice Mail system
Add - GSTU1A (standard telephone plug-on card)	1 Standard Telephone (total 2 standard telephones)
Add - BSIS1A (4-port RS-232 interface plug-on card)	SMDR for Call Accounting or SMDI for external voice mail system
Add - HPFB-6 one or two HPFB6 Battery with built-in Chargers	Reserve Power (Battery Backup)
Expanded Configuration – Licenses Required	Expanded Capacity/Feature Option
Add – GIPH-X1A (8-channel IP plug-in card). IP License requirements: LIC-CIX-STRN-CH – one license required for each IP Strata Net channel (Strata Net system license is not required). LIC-CIX-IP PORT – one license required for each IP Telephone, SIP phone and SoftIPT. LIC-SOFTIPT – one license required for each SoftIPT.	Maximum 8 channels for any mix of IP telephones or Strata Net networking channels.

Compatibility

The Strata CIX40 is a new system and does not share any of the same processor, cabinet, interface components, or integrated voice mail cards with the CTX28.

- The exceptions are the GSTU1A 1-port standard telephone plug-on card, the HPFB-6 battery backup unit and the spare CTX28-PWR-ADPTR power supply, which are common to both.
- Other CTX28 circuit cards including GCDU1A, GCTU1A and GVMU2A are not forward compatible with the CIX40.
- CIX40 circuit cards including GCDU2A, GCTU2A, GIPH-X1A and GVPH1A are not backward compatible with the CTX28.
- This is not really an issue because customers would not typically migrate from the CTX28 to the CIX40. However, it is important to note for authorized dealers maintaining their base of both systems.

Important: Unlike the CTX28 cabinet and processor which are shipped in the same box, the CIX40 cabinet (CHSU40A) and CIX40 processor (GCTU2A) are boxed separately and carry individual serial numbers and warranties. They are repaired on an individual basis.

All Toshiba DKT2000, DKT2X204-CT, DKT3000 and DKT3200 series digital telephones are compatible on Strata CIX40 systems, including the DKT3207-SD and DKT3207-SD(W) 7-button models.

Product Line Strategy

The new Strata CIX family consists of the CIX40, CIX100, CIX200, and CIX670. The Strata CIX40 represents the evolution of Strata CTX28 to our Strata CIX IP Platform, expanding both the features and advanced applications for smaller businesses and branch locations.

The Strata CTX28 will continue to be available, while supplies last. CTX28 technical support, maintenance and warranties will continue to be supported.

Selling Advantages

The strengths of the Strata CIX40 are even greater for small business applications than the very popular and successful CTX28. This provides you many selling advantages over your competition.

- The Strata CIX40 has all the features of the CTX28, plus more, at the same price.
- The GVPH1A voice mail for the CIX40 has all the features of the GVMU CTX28 voice mail, plus built-in modem for remote maintenance, more message storage and more mailbox capacity.
- VoIP capabilities enable remote users to connect to the CIX40 using IP telephones, SoftIPT soft phones on laptops and PDAs, and SIP telephones.
- Strata Net networking makes the Strata CIX40 an ideal and cost effective solution for branch office locations.

Pricing

The Strata CIX40 is the same price as the CTX28, and the GVPH1A voice mail is the same price as the GVMU. The same package pricing as the CTX28 is available for the CIX40.

When ordering a CIX40 system, part number CHSU40A-SYS or other available Packages should be ordered. This CHSU40A-SYS includes the CIX40 cabinet (CHSU40A) and processor (GCTU2A) and is less expensive than ordering the individual cabinet and processor parts. CIX40 packages are configured and priced identical to CTX28 packages. Also, three new CIX40 packages are available, these include an IP package with the GIPH-X1A IP interface card, a Demo Package and an All-In-One package that include IP telephones and Network infrastructure equipment at a discounted net price. For details on Package pricing please see the current price book on Toshiba FYI.

This provides the Strata CIX40 with even greater value with the same low pricing, and the availability of additional features and support of VoIP, Strata Net networking and more. See the updated price book on FYI for details.

A new version of CIX Quote is currently available on FYI for download with all the CIX40, GIPH1A and GVPH1A configuration capabilities.

Licensing

The Strata CIX40 is fully licensed for 28 TDM ports, 4 RS-232 ports, and 16-DTMF/ABR circuits (same as CTX28).

Licensing is only required for the 8 IP resources on the GIPH interface. These include Strata Net networking channels, IP telephones, SIP phones and SoftlPTs. Licenses applicable to CIX40 are as follows:

- LIC-CIX-STRN-CH Strata Net channel license (the IP Strata Net system license is not needed).
- LIC-CIX IP PORT Endpoint License
- LIC-SOFTIPT Softphone License

See the updated price book on FYI for details.

Documentation

The Strata CIX General Description and Strata CIX Installation & Maintenance Manual have been revised to include the Strata CIX40 and are currently available on FYI. All revised documentation that includes the CIX40 will also be included in the new Strata CIX Library CD-ROM (CIX-CD-LBRY-VF). A Strata CIX40 full color brochure is available and enclosed with the Strata CIX40 launch package.

Training

Training for the Strata CIX40 is required and is provided live online at Toshiba University under Strata CIX40 Technical Course - Full Version.

Availability

The Strata CIX40 and the GVPH1A voice mail are scheduled to begin shipping on August 21, 2006. We are now accepting orders for CIX40.

The new versions of eManager R4.12A05 and CIX Quote R4.1J01 that include the Strata CIX40 are currently available for download from FYI.

The Strata CIX40 represents the evolution of Strata CTX28 to our Strata CIX IP Platform. The Strata CTX28 will continue to be available, while supplies last. CTX28 technical support, maintenance and warranties will continue to be supported.