

Announcing Strata CIX40 Release 2 Expanded Capacity and New Features

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The new Strata CIX40 Release 2 is here! Delivering big-company features at an affordable price for small businesses and branch locations, the Strata CIX40 now offers increased expandability and new features.

We also have great news for existing Strata CIX40 customers. The Release 1 version is upgradeable. All it requires is a software upgrade to take advantage of the new features, and enable the new interfaces to be used to expand capacities. Once upgraded, the CIX40 R1 has all the features and capacities of the CIX40 R2 with the following exceptions:

- The CIX40 R1 cabinet (CHSU40A) has 3 built-in CO line circuits, compared to 4 with the R2 cabinet (CHSU40A2). This produces maximum 10 CO lines with the R1, compared to 11 with the R2.
- The CIX40 R1 can have maximum 16 IP channels, compared to 24 with the R2.

The table below summarizes capacity differences.

CIX40	Release 1 Original Software	Release 1 Upgraded to 5.1	Release 2 5.1 Software
CO lines Built-In	3	3	4
CO lines Maximum	6	10	11
IP Endpoints and/or Strata Net Channels	8	8 or 16	8, 16 or 24
Digital Station circuits Built-in	8	8	8
Digital Stations Maximum	16	16	16
Analog Station circuits Built-in	1	1	1
Analog Stations Maximum	2	2	2
Voicemail Ports	4	4, 6 or 8	4, 6 or 8

New Features

The Strata CIX40 R2 uses Release 5.1 software, which is based on Strata CIX100/200/670 R5.1 software, so functionality and features are the same with a few exceptions (see compatibility section).

- The new Strata CIX40 is compatible with Toshiba's IP User Mobility Feature, which allows a user to log in from a new location to his or her SoftIPT soft phone or an IP desk phone even when the extension is being used at another desktop IP telephone or mobile device.
- Hot Desking is also provided by IP User Mobility and allows users who share a common workstation to log in and use a shared phone with their own individual extension and profile.
- Users of the original CIX40 R1 GSTU2A processor may also upgrade to Release 5.1 software to take advantage of these new features.

Cabinet

The Strata CIX40 R2 uses the same 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 GIPH-X1A, MIPU16-1A or MIPU24-1A IP interface card, plug into the CIX40 R2 cabinet (CHSU40A2).

The CIX40 R2 cabinet has three dedicated slots used for the GCTU2A system processor card, the optional GVPH1A Voice Mail circuit card, and the optional GIPH-X1A, MIPU16-1A or MIPU24-1A IP interface cards; or GCOCIH1A 4-port CO line card. All other CIX40 optional interface cards plug onto the processor or the motherboard.

The CIX40 R2 base cabinet (CHSU40A2) comes with the following built-in circuitry, as well as the interfaces built on the processor listed in the processor section.

- 4 Loop Start CO lines with Caller ID interface
- 8 Digital Station interfaces
- 1 Analog Standard Telephone Interface
- 1 Power Failure Transfer Relay interface
- 1 AC power adaptor (ships with each cabinet)

Processor

The Strata CIX40 processor (GCTU2A) installs in a dedicated CIX40 cabinet slot. This is the same processor used in the existing CIX40 R1 cabinets installed the field.

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 (BESCB1A) 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.

CIX40 Licensing

The CIX40 does not require processor licenses for analog Caller ID CO Lines, digital or analog station ports, DTMF Receivers, RS-232 ports, or the first 4 Voice Mail ports. The only CIX processor licenses needed are for IP Strata Net networking channels, Toshiba IP telephones, SIP phones, SoftIPT soft phones, and to expand voice mail ports from four to 6 or 8 ports.

The Strata CIX40 R2 comes standard fully licensed for all 16 digital stations, 2 analog stations, 11 analog CO lines, 4 GVPH1A voice mail ports, 4 RS-232 ports, and 16-DTMF/ABR circuits.

- Licensing is required to expand the GVPH1A from the 4 VM default ports to 6 or 8 VM ports with LIC-2 GVPH licenses.
- Licensing is required for Strata Net networking and endpoint support of IP telephones, SIP phones, and SoftIPT soft phones.
- Licenses are required on the Media Application Server (MAS), Stratagy® SES, and customer provided PCs for applications such as ACD, Net Phone, TASKE®, Oaisys®, Feature Flex®, VCS™, Insight, etc.

Licenses applicable to Strata 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 – SoftIPT soft phone license
- LIC-2 GVPH – 2 port Voice Mail license

Note The LIC-DP5022SDM license is not required for the DP5022-SDM telephone to function on CIX40 with R5.10 software. This license is only required when installing DP5022-SDM telephone on the CIX100, CIX100-S, CIX200, and CIX670 systems.

Integrated Voice Mail (GVPH1A)

This plug and play voice mail circuit card (GVPH1A) is specifically designed for the Strata CIX40 cabinet. It provides comprehensive Auto Attendant/Voice Mail capabilities, including the following:

- 4 Voice Mail ports (expands to 6 or 8 ports with one or two LIC-2 GVPH licenses)
- 40 hours voice storage or up to 10,000 total messages.
- 360 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 the same version of Stratagy Admin used for CIX40 R1 systems.
- Pre-programmed with default mail boxes that match CIX40 default stations numbers, adding simplicity to any installation.

CIX40 System Configuration

CIX40 Components

Basic Configuration No Licenses Needed	Basic Capacity
CHSU40A2: Release 2 Cabinet, includes Power supply and Mother Board. GCTU2A: processor is required and boxed separately from the CIX40 cabinet. The cabinet and processor are also warranted and repaired individually.	The Cabinet and processor provide 4 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, MAS server and 3rd party CSTA applications, and a Secure Digital card interface.
Optional Cards - Licenses Not Required	Option function
GCDU2A	3-CO line circuit / 8-Digital Telephone circuit expansion card.
GCOCIH1A	4-CO line circuit expansion card Note If GCOCIH1A is installed then GIPH-X1A, MIPU16 or MIPU24 can not be installed and vice versa.
GVPH1A	4 - port Toshiba Plug-in Voice Mail system (expandable to 6 or 8 VM ports with LIC-2 GVPH licenses)
GSTU1A	1 Standard Telephone circuit expansion card.
BSIS1A	4-port RS-232 interface plug-on card for SMDR for Call Accounting or SMDI for external voice mail system.
HPFB-6	One or two HPFB6 Battery with built-in Chargers can be installed to provide Reserve Power (Battery Backup) for one or two hours.
Option Cards - Licenses Required	Option function
GIPH-X1A, MIPU16-1A or MIPU24-1A: 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, 16 or 24 IP channels for any mix of IP telephones or Strata Net networking channels. Note If GIPH-X1A, MIPU16-1A or MIPU24-1A is installed then GCOCIH1A can not be installed and vice versa.
GVPH: LIC-2 GVPH - GVPH1A ports 5/6 and 7/8	

CX40 R2 Cabinet Configurations (CHSU40A2 Cabinet/R5.1 SW)

Analog CO Lines	Digital Telephones	IP Channels	Equipment
4	8	0	Cabinet (CHSU40A2)
7	16	0	Cabinet, GCDU2A
8	8	0	Cabinet, GCOCIH
11	16	0	Cabinet, GCDU2A, GCOCIH1A
4	8	8, 16, 24	Cabinet, GIPH, MIPU16, MIPU24
7	16	8, 16, 24	Cabinet, GCDU2A, GIPH, MIPU16, MIPU24
Voice Mail: GVPH can be installed in all of the above configurations to provide 4 default VM Ports or expand to 6 or 8 VM Ports with the LIC2-GVPH license			
Analog FX/Modem Ports: One analog station port is standard on the Base cabinet; a second can be added by installing GSTU1A.			

CX40 R1 Cabinet Configurations (CHSU40A Cabinet/R5.1 SW)

Analog CO Lines	Digital Telephones	IP Channels	Equipment
3	8	0	Cabinet (CHSU40A)
6	16	0	Cabinet, GCDU2A
7	8	0	Cabinet, GCOCIH
10	16	0	Cabinet, GCDU2A, GCOCIH
3	8	8, 16	Cabinet, GIPH, MIPU16
6	16	8, 16	Cabinet, GCDU2A, GIPH, MIPU16
Voice Mail: GVPH1A can be installed in all of the above configurations to provide 4 default VM Ports or expand to 6 or 8 VM Ports with the LIC2-GVPH license			
Analog FX/Modem Ports: One analog station port is standard on the Base cabinet; a second can be added by installing GSTU1A.			

Telephone and Console Support

The Strata CIX40 supports all current Toshiba digital telephones, including the new DP5000-series, 3000-series and 3200-series, and 2000-series, including the DKT3207-SD and DKT3207-SD(W) 7-button models, Add-on Module, DSS Console, DKT2x04-CT digital cordless telephones, 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.).

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 Strata CIX40. Up to three hours of uninterrupted service can be provided if the AC power is lost or disconnected from the system.

Compatibility

The Strata CIX40 CHSU40A2 Release 2 cabinet uses the same GCTU2A processor as the CIX40 CHSU40A1 Release 1 cabinet.

The Strata CIX40 CHSU40A Release 1 cabinet with a GCTU2A processor that is upgraded with R5.1 software allows it to use all CIX40 Release 2 cabinet interface cards except MIPU24-1A. Compatible interface cards include:

- GCDU2A – 3 Caller ID CO line and 8 digital telephone interface card
- GCOCIH1A – 4 Caller ID CO line card
- GIPH-X1A – 8 channel IP interface card
- MIPU16-1A – 16 channel IP interface card
- MIPU24-1A – 24 channel IP interface card (CIX40 R2 Cabinet only)
- GSTU1A – 1 Analog telephone interface card
- GVPH1A – 4 port Voice Mail card (expandable to 6 or 8 ports)

The Strata CIX40 does not support the following capabilities which are available in the larger Strata CIX100, CIX200 and CIX670 systems.

- 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 R1 and R2 systems do 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 GCTU2A, GCDU2A, GCOCIH1A, GIPH-X1A, MIPU16, MIPU24 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.

Product Line Strategy

The Strata CIX40 R2 replaces the R1 version in the Toshiba product line. The Strata CIX family consists of the CIX40, CIX100-S, CIX100, CIX200, and CIX670. The Strata CIX40 represents the small end of our Strata CIX product line, expanding both its capacities and features, making it ideal for smaller businesses and branch locations of larger enterprises.

Selling Advantages

The strengths of the Strata CIX40 R2 system are even greater for small business applications than the very popular and successful CIX40 R1 system. This provides you many selling advantages over your competition.

- The Strata CIX40 R2 has all the features of the CIX40 R1, plus much more capacity, at a great value and competitive price.
- The GVPH1A voice mail for the CIX40 with R5.1 software contains all the voice mail features as it previously had with the capability to double port capacity from 4 to 8 ports.
- VoIP capacities for users of IP telephones, SoftIPT soft phones on laptops and PDAs, and SIP telephones, and Strata Net networking are expanded from 8 to 24 IP channels.

Pricing and Ordering Information

The Strata CIX40 Release 2 system is the same price as the Strata CIX40 Release 1 system. This provides greater value with the availability of additional features and expanded capacities. See the updated price book on FYI for details.

When ordering a CIX40 system, part number CHSU40A2-SYS or other available Packages should be ordered. This CHSU40A2-SYS includes the CIX40 cabinet (CHSU40A2) and processor (GCTU2A) and is less expensive than ordering the individual replacement cabinet and processor parts. Strata CIX40 R2 packages are configured and priced identical to CIX40 R1 packages. For details on Package pricing please see the current price book on Toshiba FYI.

A new version of CIX Quote is currently available on FYI for download with all the CIX40 Release 2 configuration capabilities.

Installation and Programming

The new CIX40 R2 with R5.1 software is easy and very cost effective to install. The CIX40 does not require licenses for analog CO Lines, digital or analog station ports, DTMF Receivers, RS-232 ports, or the first 4

Voice Mail ports. The only licenses needed are for IP telephones and Strata Net networking channels; and to expand GVPH1A from 4 to 6 or 8 voice mail ports.

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, 5.10A03 or above is required for CIX40 R2 and is available on Internet FYI that supports all Strata CIX and CTX systems. Previous versions of eManager do not support CIX40 Release 2 Cabinets. The CIX40 software R5.10 is based on the CIX100/200/670 R5.1 software so the database programming is the same.

Documentation

The Strata CIX General Description and Strata CIX Installation & Maintenance Manual have been revised to include the Strata CIX40 Release 2 and are currently available on FYI. A Strata CIX40 full color brochure is available and is enclosed with the Strata CIX40 Release 2 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 Release 2 cabinet (CHSU40A2) is currently available to order on Toshiba FYI and will begin shipping November 20, 2007. The Strata CIX Release 5.1 software is currently available to download from Toshiba FYI.