

CONTEX®

2000T compunetix, inc.

Digital Voice Communication System (DVCS)
For Maximum Port Application



Designed to meet the needs of large capacity applications, the CONTEX® 2000T immediately surpasses other conferencing products with its ability to configure over 2400 ports upon installation. Using the standards that have earned the ITCA (International Tele-Conferencing Association) Product of the Year Award for 1993, Compunetix remains in the forefront of system design. ■ The CONTEX® 2000T's operational features are developed for mission control and closed (Military Base) operations with PBX interface for on-site and off-site phone access.

PHYSICAL DIMENSIONS:

- Standard 19" rack-mounted Euro Cabinets
- Size: Width, 48 inches (1200mm)
Depth, 32 inches (800mm)
Height, 87 inches (2200mm)

EXCLUSIVE FEATURES:

- Individual port transmit and receive settings
 - Adjustable conference parameters
 - Automatic gain control (port enabled)
 - Selectable conference modes
 - meet me
 - preset
 - progressive
 - Dial intercom capability
 - Voice Direct Line capability
 - Nonblocking architecture
 - Supports secure (red) communications
 - In a fully populated system, 2448 port capacity capable of joining all 2448 ports in a single conference, 2 parties each. In 1224 conferences or any combination thereof.
 - T1/ISDN backplanes, each supporting up to 18 T1 interface modules (432 DSO ports) or up to 18 ISDN interface modules (72 keysets)
 - Triple Redundant Controller (TRC) for assured reliability*
 - Hot Card Swapping
 - Administration Control via a Compunetix PC Compatible Maintenance Administration Terminal (MAT). The MAT furnishes both failure alarms and module identification for remedial action. The MAT can be installed in a single or redundant configuration at local and/or remote locations, depending on customer requirements.
 - A selection of ISDN and analog based instrument keysets which vary from a simple single line phone to a 280 soft-key electroluminescent touch screen instrument
 - Digital (ISDN) instrument interfaces are user selectable as fiber optic or 2-wire basic rate ISDN
- * Reliability is most important. The CONTEX® 2000T features a Triple Redundant Controller (TRC), which operates with a unique polling configuration so that failure of any part of the system is transparent and recoverable at any moment during operation. This means that even during the most critical period of a

mission, there will never be danger of malfunction because of communications breakdown. The TRC makes CONTEX® reliability unique!

OPERATIONAL FEATURES:

Size

- Up to 2448 Ports

Line Interface

- Internal Basic Rate ISDN; T1; D3/D4 or ESF framing modes; master or slave clocking; remote clock input; fully compatible with ANSI and CCITT standards

Signaling Options

- Loop Start
- Ground Start
- E&M
- Wink Start
- FXS
- PLAR

DTMF Generation/Recognition

- Provided for each channel (Port) per Bell Core TR- TSY-00018

Conference Configuration

- Non-Blocking Digital

Conference Formation

- Via the MAT and keyset instruments for preset and custom nets

Number of Conferences

- Unlimited up to N/2

Parties per Conference

- Unlimited up to N

Number of Talkers

- Total duplex and variable from all talker to one talker

Dynamic Port Reallocation

- Automatic and completely non-blocking

Noise Filtering

- Uses DSPs to eliminate line or background noise from the conference, 18dBnCO or less. The noise floor is not affected by size of the conference.

Echo Suppression

- Standard

Echo Cancellation

- Optional

T1 Line Frequency

- 1.544 MHz +/- 200Hz

Self Tests and Diagnostics

- Continuous at both the individual circuit module and full system levels. Failed circuits are automatically bypassed. MAT alarms identify failed modules.

Maintenance Administration Terminal (MAT)

- Provides system configuration, monitoring and maintenance

System Reliability

- Built to Mil-Std-55110 & Mil-Std-454.

Optional System Redundancy

- Triple Redundant Controller; redundant maintenance administration terminals; dual redundant power supplies; redundant switching; and conferencing subsystems

Mean Time Between Failures

- 950,000 Hours
(Based on redundant configuration)

Mean Time to Repair

- MTTR = 15 min.

Availability

- 99.9997%

OPERATIONAL CHARACTERISTICS:

DC Power

- Input V -48 VDC (-42 to -58 VDC)
- Input I 66 Amps

AC Power (Optional)

- Input V 115 VAC +/- 12 VAC
- Input I 27.6 Amps

OPERATING ENVIRONMENT:

Temperature

- 10 degrees C to 40 degrees C

Relative Humidity

- 10% to 90% (noncondensing)

compunetix, inc.

federal systems division

2420 mossie blvd.

monroeville, PA 15146

phone: (412) 373-8110

fax: (412) 858-6348

email: fsdsales@compunetix.com

www.compunetix.com