

# CONTEX®

# 500T

compunetix, inc.

Digital Voice Communication System (DVCS)



The CONTEX® DVCS series was designed by the Compunetix engineering staff to meet the extremely demanding requirements of the military and aerospace industries. CONTEX® systems are built to operate in crisis management and mission-oriented situations in which reliability is not an option but a critical requirement.

■ The Compunetix DVCS equipment is the most advanced high capacity telephone conferencing equipment in the world. The CONTEX® Model 500T is a time division multiplexed teleconferencing system that is highly versatile to meet diverse custom configurations.

#### PHYSICAL DIMENSIONS:

- Standard 19" rack-mounted Euro Cabinets
- Size: Width, 24 inches (600mm)  
Depth, 32 inches (800mm)  
Height, 87 inches (2200mm)

#### FEATURES INCLUDE:

- 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, 600 port capacity capable of joining all 600 parties in a single conference, 2 parties each in 300 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 electro-luminescent touch screen instrument
- Digital (ISDN) Instrument Interfaces are user selectable as fiber optic or 2-wire basic ISDN.
- RS-310C Euro Cabinet design

#### ALL IN ONE:

The CONTEX® Model 500T is a highly modular design. Each interface rack contains all switching, multiplying and summation hardware it requires. This technological approach allows Compunetix to serve the varying needs of its customers with commercial off-the-shelf equipment. Depending on customer require-

ments, a larger or smaller amount of summation and multiplying hardware can be provided per port. Also depending on customer requirements, varying levels of man/machine interface software and general network control software can be provided. Therefore, the CONTEX® Model 500T conferencing solution is highly cost effective.

#### OPERATIONAL FEATURES:

##### Size

- Up to 600 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

- 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

##### Noise Filtering

- Uses DSPs to eliminate line or background noise from the conference, 18 dBnCO 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 +/- 200 Hz

##### 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 and Mil-Std-454

##### Optional System Redundancy

- Triple Redundant Controller; Redundant Maintenance Administration Terminals, dual redundant power supplies; redundant switching subsystem

##### 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 35 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)

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