

### Station Features

Abbreviated / Speed Dialing  
Account Codes  
ACD Agent (Logon / Status)  
ACD Group (Status / Display)  
Add-on Conference  
Alphanumeric Paging  
Alarm Clock (Local / Remote)  
All Call Announce  
All Call Announce Pickup  
Answer  
Automatic Call Transfer  
Automatic Hold Recall  
Automatic Set Relocation  
Background Music  
Break-in  
Broker's Hold  
Busy / No Answer Intercept  
Busy Override  
Button Change  
Button Hunting  
Call Announce  
  Privacy  
  Transfer  
  Display  
Call Forward  
  Busy / Don't Answer  
  Don't Answer  
  Follow Me  
  Outside the System  
  Local  
  Remote  
Call History Logging and Callback  
Call Park, Answer and Identification  
Call Pickup  
Call Queue Query  
Call Transfer  
Called Party Identification  
Caller ID Blocking/Unblocking  
Caller ID Blocking Override  
Calling Party Information  
Called Party Information  
Camp-on  
Cancel  
Class-of-Service Change  
Clear Active Features  
Conference  
  Add-on  
  Cancel  
  Isolate  
  Meet-me  
  Music-on-hold  
  Query  
Data Adapter  
Dial Access Codes  
Dial Access for Remote Extensions  
Direct Extension Selection  
Direct Call Pickup  
  All Call Announce  
  Group Call  
  Page  
  Park to Station

Direct Ring Prime  
Do-Not-Disturb  
E-911 Page Notification  
Group Listen  
Ground Recall  
Headset / Handset Operation  
Hold (Conference / System / Transfer)  
Intercom (Hot Line / Secretarial)  
Message Send / Message Retrieve  
  Message Cancel  
  Message Waiting  
  Query  
  Page Priority  
  Audible  
  Auto Delete  
  Voice Mail  
Monitor  
Multiple Function Feature Buttons  
Music  
  Conference Music-on-Hold  
  Music-on-Hold  
  Paging Background Music  
  Phone Background Music  
Night Service (Answer / Transfer)  
Override  
Paging and Paging Answer  
Paging Display  
Parked Call Indication  
Park to Station  
Personal Preferences Setup  
Personal Speed Dialing Directory  
Privacy  
Problem Circuit Tagging  
Recorder Jack  
Redial  
  Last Number Redial  
  Stored Number Redial  
Release  
Remote Call Pickup (General / Group)  
Repertory Dialing (Personal / System)  
SIP Devices (IP Phones / Softphones)  
Speakerphone  
System Alarms  
Transfer  
Voice Mail Access

### Trunk Features

Analog DID Busy Out  
Analog E&M Tie Lines  
Analog Ground-Start Trunks  
Analog Loop-Start Trunks  
Analog Nailed-Up Circuit  
ANI and DNIS Service  
Automatic Call Distribution  
Caller ID Translation  
D-Channel Backup  
Dial Access Codes  
Digital Announcer Support  
Digital E&M Tie Lines  
Digital Ground-Start Trunks  
Digital Loop-Start Trunks  
Digital ISDN Trunks

Digital Off-Premises Stations  
Direct Department Calling  
Direct-In Line  
Direct Inward Dialing  
E1 Trunks  
Individual Trunk Access  
Information Digits on T1/E1 ANI  
International Signaling Protocols  
IP Networking Trunks  
ISDN PRI Integration  
Least Cost Routing  
Message Send/Message Cancel  
Message Send Page Access  
MF Outdial on Analog Trunks  
Multiple Trunk Groups  
Nailed-up Data Connection  
Name Delivery on ISDN  
Network Redirection  
Non-Facility Associated Signaling  
Overlap Dialing  
PRI Call-by-Call Service Selection  
Priority Queues  
Public / Private Numbering Plan  
  Interface  
  Remote Access (DISA)  
Senderized Dialing  
SIP Trunking (gateway required)  
T1 Trunks  
T1/E1 DID Digit Collection  
Tie Trunks  
Toll Restriction  
Traffic Measurement  
Trunk-to-Trunk Connect  
Trunk Route Queuing  
Trunk Routes

### System Features

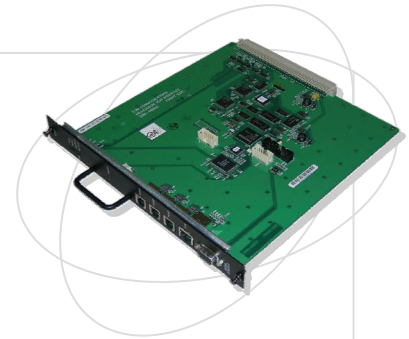
1500 Virtual Programming  
  Locations  
A-Law/Mu-Law Conversion  
ACD Agent PINs  
ACD Group Status Display  
ACD Group Intercall Timing  
ACD Reports (English or French)  
Alarm Indicators  
Announcer Ports  
Asynchronous Data Programming  
AT Commands for Telephone  
  Control  
Audio Level Control  
Authorization Codes  
Auto Answer  
Automated Attendant  
Automatic Conference Teardown  
Automatic Station Hunt  
Backup Battery Support  
Backup Memory Allocation  
Busy/Don't Answer Intercept  
Call Accounting System Support  
Call Announce  
Call Announce/Paging  
  Simultaneously  
Call Queue Query  
Call Queuing  
Call Routing Plans  
Call Screening  
Caller ID  
Circuit Switched Data  
Classes of Service  
CTI (CSTA / TAPI / TSAPI)  
D-Channel Data Applications  
Database Backup  
Data COS Programming  
Date/Time Set From Network  
Daylight Saving Time  
Diagnostics  
Dial Pulse/DTMF Signaling  
Digit Collection/Processing  
Distinctive Ringing  
External Alarm Device Interface  
External Paging Interface  
Feature Group B & D Switched Access  
Flexible Numbering Plan  
Hexadecimal Dialing  
ICLID Delivery of DID/DNIS  
Intercom  
Intercept  
Monitor Zones  
Multiple Attendant Positions  
NANP Compatible  
National ISDN B-Channel  
Management  
Network Message Waiting Indication  
Night Service (Display / Zones)  
Off-Premises ACD Agents  
Off-Premises Stations  
Originating Line Information  
Overlap Dialing  
Override/Busy Verification  
Page Tone  
Private Lines  
Programmable Tones  
Protected Stations  
QSIG  
Recall  
Receiver Off-Hook (ROH) Intercept  
Remote Fiber Shelves  
Remote Programming & Diagnostics  
Remote System Extensions  
Resources Queuing  
Session Initiation Protocol (SIP)  
Sigbus and Event Monitoring  
Station Hunting  
Station Message Detail Recording (SMDR)  
Calling Party Number  
System Clock  
System Repertory Numbers  
System Security  
System Tones  
Display Board Support  
Translate Tables  
User Mnemonics  
Voice Mail Integration

## Millennium Technical Specifications

### 8-Slot and 16-Slot Systems

#### Weight/Dimensions

Equipment	Weight (lbs.)	Dimensions
8-Slot Cabinet	17 1/8	17.25W x 11.72D x 12.5H
Equipped Mounting Bracket	18	19.87W x 11.72D x 12.5H
8-Slot Cabinet Fully Loaded	37 1/2	
16-Slot Cabinet	28 1/2	31.37W x 11.72D x 12.5H
Equipped Mounting Bracket	29 1/2	
16-Slot Cabinet Fully Loaded	49 1/2	34W x 12.5D x 12.5H



#### AC Input Power Requirements

Equipment	Characteristics	Parameters
200-Watt Power Supply Module (8-Slot Cabinet)	Facility Power Input	Voltage = 95 - 128 VAC at 2.5 amperes, 50 - 60 Hz OR Voltage = 190 - 256 VAC at 1.2 amperes, 50 - 60 Hz
400-Watt Power Supply Module (16-Slot Cabinet)	Facility Power Input	Voltage = 95 - 128 VAC at 5.0 amperes, 50 - 60 Hz OR Voltage = 190 - 256 VAC at 3.0 amperes, 50 - 60 Hz

#### Power Consumption for 36V DC Backup

Configuration	Power	Current Drain @ 36 Volts
<b>8-Slot Cabinet</b>		
Nominally Populated	110 Watts (375 BTU/H)	Nominal Current: 3.056 amperes Battery Duration: 8.600 hours
Fully Populated	155 Watts (530 BTU/H)	Maximum Current: 4.305 amperes Battery Duration: 6.039 hours
<b>12-Slot Cabinet</b>		
Nominally Populated	165 Watts (564 BTU/H)	Nominal Current: 4.330 amperes Battery Duration: 6.000 hours
Fully Populated	227 Watts (776 BTU/H)	Maximum Current: 6.206 amperes Battery Duration: 4.120 hours
<b>16-Slot Cabinet</b>		
Nominally Populated	215 Watts (735 BTU/H)	Nominal Current: 5.972 amperes Battery Duration: 4.350 hours
Fully Populated	305 Watts (1040 BTU/H)	Maximum Current: 8.472 amperes Battery Duration: 3.069 hours

#### Telephone Loop Lengths

Model	Parameters	Maximum Length Specifications
eNterprise 2-Wire Digital Telephones	<ul style="list-style-type: none"> <li>System is AC powered and telephone is line powered. This includes commercial AC power and UPS backup power.</li> <li>System is 36V battery backup powered and the telephone is line powered.</li> <li>Telephone is powered using Power Adapter P/N 500020-391-001.</li> </ul>	3,000 feet (914 meters)
Single Line Telephones & Off-Premises Extensions	<ul style="list-style-type: none"> <li>System is AC powered and telephone is line powered. This includes commercial AC power and UPS backup power.</li> </ul>	1,000 feet (305 meters)
eNterprise IP Telephones	<ul style="list-style-type: none"> <li>IP telephones can be located anywhere there is a secure IP network connection. CAT5 supports a single run of 100M without additional equipment.</li> </ul>	12,000 feet (3,657 meters)
		15,000 feet (4,572 meters)

#### Telephone Dimensions

eNterprise 22-Button & 32-Button IP Telephones	8" W x 7 1/2" D x 2 1/2" H
eNterprise 22-Button & 32-Button Digital Telephones	8" W x 7 1/2" D x 2 1/2" H
eNterprise Button Expansion Module	8" W x 7 1/2" D x 2 1/2" H

**FCC Registration Number:** GVIUSA-73152-MF-E

**Industry Canada DOC Number:** 959 5577 A

**Ringer Equivalence:** 1.2B

Note: Digital and single line telephones loop limits are based on #24 AWG station wire.



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