



DATA SHEET

IMACS 600, 800, 900 and 8000. Integrated Solution for Advanced Voice and Data

Overview

The concept of Integrated Access began with the introduction of the Integrated Multiple Access Communications Server; Premisys Communications' revolutionary IMACS. Initially, the IMACS was a vision that brought bandwidth savings for voice and data access. IMACS has not strayed from its vision and has remained the most flexible, robust, and scalable integrated access solution in the telecommunications market today. In fact, DZS has continued to build on the promise to provide the most robust set of voice and data access services and applications on one manageable platform; the IMACS.

The IMACS, with over 50 optional service application modules and four flexible and scalable chassis options, provides an almost limitless combination of services, applications and network interfaces.

The IMACS is unrivaled in its network versatility and supports V.35, V.11/X.21 and up to eight T1/E1 and Fractional T1/E1 WAN interfaces. An integrated digital cross-connect is available to consolidate multiple voice, data, and T1/E1 services. Five chassis models, IMACS 200, IMACS 600, 800, 900, and IMACS 8000 differ in their card capacity and card installation options (front, or front and rear). Except the IMACS 200, all models

Features

- Over 50 Plug-In Modules for Voice, Data and IP
- NERC security features
- MegaSys Telenium management
- Optical HSU Interface to Protection relays (IEEE C37.94)
- WAN options: T1/E1, OC3 WAN and PWE3

support the same range of modular cards, power supplies, and system redundancy options. All IMACS systems can be fully managed either with local craft interface through a VT100, PC, or through MegaSys Telenium Element Management System using standard SNMP interfaces.

IMACS also offers a powerful array of integrated network diagnostic and fault isolation capabilities. These include Bit Error Rate Test (BERT), test tone and signaling state generation, digital and analog loopback support, and remote configuration and control. Because IMACS meets stringent standards criteria, including NEBS and CE, it can be deployed almost anywhere in your network.

With over 160,000 systems worldwide, the IMACS is designed to continuously meet the needs of a changing telecommunications landscape. With its advanced modular architecture, voice and data services can be deployed quickly and cost effectively. Applications include: POTS (FXS, FXO, E&M), voice compression (ADPCM), VPN access, Internet access, integrated routing capabilities, voice over Frame Relay, Digital Data Networks (DDN), analog private lines, and numerous others. The IMACS is being used in both public and private, as well as traditional facilities-based and wireless networks.



Specifications

WEIGHT & DIMENSIONS**IMACS 200 (HWD):**

- 3.5 in x 17.31 in x 9.48 in
- 8.9 cm x 44 cm x 24.1 cm

IMACS 600 (HWD):

- 9 in x 17 in x 9.12 in
- 22.8 cm x 43.2 cm x 23.16 cm

IMACS 800 (HWD):

- 9 in x 17 in x 15.3 in
- 22.8 cm x 43.2 cm x 38.86 cm

IMACS 900 (HWD):

- 15.4 in x 17 in x 9.12 in
- 39 cm x 43.2 cm x 23.16 cm

IMACS 8000 (HWD):

- 9 in x 17 in x 15.3 in
- 22.8 cm x 43.2 cm x 38.86 cm

POWER

- 120 / 240 VAC
- 48 VDC
- 24 VDC (IMACS 600, 800, 900 only)
- 125 VDC (IMACS 200 only)
- Power consumption: 125 W (max)
- Output Power: 55 W continuous, 135 W continuous available on IMACS 8000 only.
- AC-to-DC power converter (-48 VDC)
- Dual feed & redundancy
- Ring generation

INTERFACES

- T1 or E1 (Up to 8)
- V.35, RS-530, RS-232, RS-449, RS-422, V.24,
- DDS, SLC96, 10BaseT
- Optical HSU (IEEE C37.94)
- 4-port Optical HSU
- Optical OC3 WAN
- IPR*4 PPP
- IPR*4 HDLC
- PWE3

STANDARDS SUPPORT

- ANSI 310-D
- Bellcore GR-63-core (NEBS 3), GR-1089-core
- Bellcore TR-TSY-000008
- IEC 297-1
- ITU-G703, G.704, G.732, G.735, G.736,
- G.823, G.824

Voice

- Analog voice (FXS, FXO, E&M)
- Voice compression (ADPCM)

PROTOCOL SUPPORTNERC Security Features

- 256 user assignable unique users
- Each user independently settable r/w privileges
- 16 different user groups
- RADIUS authentication
- SNTP time server
- Syslog
- Login logs
- Change logs

REGULATORY COMPLIANCE

- UL 459, 1459, EN60950
- CE EN 500 81-1, 500 82-1, 55022, FCC part 15
- FCC part 68, CTR 12, CTR 13, ACA T5016

MANAGEMENTInterfaces:

- Connectivity: modem, SLIP, PPP, FDL time slot 24 (T1) or SAA time slot 31 (E1), ISDN D-channel, frame relay PVC
- SNMP

MegaSys Management System using Telenium:

- Manages networks of IMACS
- Centralized management
- Point & click graphical user interface
- Management of configurations, alarms, connectivity, diagnostics
- Multi-user environment
- SNMP-based
- Supports TELNET for emulation of craft interface
- IP addressing for node addresses
- RS-232, VT-100 craft interface

OPERATING REQUIREMENTSRedundancy:

- Power supply
- CPU
- WAN interfaces
- ADPCM
- Analog Bridge
- CPU-7 redundancy feature

Clocking:

- Stratum 4
- Sources: internal, T1, E1, digital interface, external clocking



Modules

IMACS 600, 800, 900	DESCRIPTION	IMACS 8000
PRM-801070	IMACS,WAN CARD,DUAL T1/E1, DSX/CSU STRAP FOR T1	8000-WAN-T1
PRM-801070-E1	IMACS,WAN CARD,DUAL T1/E1, DSX/CSU STRAP FOR E1	8000-WAN-E1
PRM-801470	IMACS,WAN CARD,DUAL T1/E1, DSX/CSU, W/RELAYS	8000-WAN-R-T1
PRM-801470-E1	IMACS,WAN CARD,DUAL T1/E1, DSX/CSU, W/RELAYS STRAP FOR E1	8000-WAN-R-E1
PRM-810860	IMACS,E&M,2WX8P,SS	8000-EM-2W-8P
PRM-811960	IMACS,E&M,4WX8P,W/EJECT	8000-EM-4W-8P
PRM-812960	IMACS, FXS, 2WX8P, 600 OHM, SS	8000-FXS-8P
PRM-813970	IMACS,FXO,2W,8P,SS	8000-FXO-8P
PRM-816460	IMACS,DSM,4P,SS	
PRM-820260	IMACS,HSU,RS530/V.35,SS	
PRM-820360	IMACS,HSU,2P,TRUNK/EIA-530,SS	8000-HSU-2P-V11
PRM-821260	IMACS,HSU,2P,SS	8000-HSU-2P
PRM-821570	IMACS,HSU,4P,RS530,W/EJECT,SS	8000-HSU-4P
PRM-822060	IMACS,SRU,10P,W/EJECT	
PRM-822061	IMACS,SRU,10P,W/EJECT,SS	
PRM-822160	IMACS, SRU,10P, W/EJECT	
PRM-822570	IMACS,LOW DELAY SRU, 10 PORT	8000-LDSRU-10P
PRM-823870	IMACS, OPTICAL HSU, 4 PORT, 830NM, MULTIMODE	8000-OHSU-4P
PRM-824160	IMACS,OCU-DP,5P,SS	8000-OCUDP-5P
PRM-824660	IMACS,OCU-DP,10P,SS	8000-OCUDP-10P

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Modules

IMACS 600, 800, 900	DESCRIPTION	IMACS 8000
PRM-8249	IMACS,OCU-DP,2P	
PRM-825460	IMACS,DSO-DP,SS	8000-DS0DP-4P
PRM-840160	IMACS,ALARM,4P,SS	8000-ALARM-4P
PRM-840250	IMACS,ALARM,3P,W/EJECT,SSTE	
PRM-840260	IMACS,ALARM,3P,SS	
PRM-880370	PTO CONFIG – IMACS,CPU,XCON,6.X.Y HOST CODE, REDUNDANT CAPABLE	
PRM-880460	PTO CONFIG – IMACS, CPU, RCON, 256K, 2M, SS	
PRM-880770	PTO CONFIG – IMACS,CPU,XCON,7.X.Y HOST CODE, REDUNDANT	8000-CPU
PRM-881160	PTO CONFIG – IMACS, ACS, FRS, 64P, SS	
PRM-881161	PTO CONFIG – IMACS, ACS, IPR, 64P, SS	
PRM-881360	PTO CONFIG – IMACS,MCC,128P,SS	
PRM-882570	IMACS, OC3 SERVER CARD	8000-OC3-PT2PT
PRM-883270	PTO CONFIG – IMACS, ROUTER, 10/100BASE-T	
PRM-883275	PTO CONFIG – IMACS, ROUTER, 10/100BASE-T,PPP,8HS	8000-ROUTER-PPP-HS
PRM-883280	PTO CONFIG – IMACS, ROUTER,10/100BASE-T,HDLC	8000-ROUTER-HDLC
PRM-883570	PTO CONFIG – IMACS,PWE,SFP OR GIGE RJ45, 8 E1/T1 CAPACITY	8000-PWE
PRM-885070	PTO CONFIG – IMACS, ANALOG BRIDGING SERVER CARD	8000-BRIDGE
PRM-887170	IMACS,ADPCM SERVER ,SS	8000-ADPCM
PRM-8901	IMACS,P/S,AC,120-240V	

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Modules

IMACS 600, 800, 900	DESCRIPTION	IMACS 8000
PRM-890220	IMACS,DC POWER SUPPLY	
PRM-8905	IMACS,P/S,110/220V-48VDC	
PRM-890620	IMACS,RINGER	
PRM-8907	IMACS,P/S,DC,24V	
PRM-892060	IMACS,I/F,8P,T1/E1,32K,W/MOD,SS	
PRM-892260	IMACS,I/F,8P,128K,NO MOD,SS	
PRM-892360	IMACS,I/F,8P,128K,SS	
PRM-892460	IMACS,I/F,128K,W/O MODEM,SS	
PRM-893270	IMACS, RDNT, I/F, EXT SYNC, 8P, NO MOD, SS	8000-IF+EXT
PRM-893370	IMACS, RDNT, I/F, 8P, MODEM, SS	8000-IF+MODEM
PRM-893470	IMACS, RDNT, I/F, W/O MODEM,SS	8000-IF
	IMACS 135W LOAD CARD – PRM-898070	8000-135W-LOAD
	IMACS 8000,P/S,AC,120-240V, 135 WATT	8000-AC-135W
	IMACS 8000,P/S,AC,120-240V,55 WATT	8000-AC-55W
	IMACS 8000, FILLER PANEL, SS	8000-BLANK-FP
	IMACS 8000,P/S,DC,48V,135 WATT	8000-DC-135W

Ordering Information

MODEL	DESCRIPTION
PRM-891630	IMACS 600 Chassis
PRM-891830	IMACS 800 Chassis
PRM-891930	IMACS 900 Chassis
8000-CHASSIS	IMACS 8000 Chassis

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