

CPU Cards

Features

- **Two models of CPU cards to support low-end or high-end functionality.**
- **Single chassis CPU redundancy**
- **Both models support from two to eight T1/E1 links.**
- **Cross-connect model (880370) provides up to 24 Mb/s of non-blocking cross-connect. (Total user bandwidth = 8 Mb/s, Total WAN bandwidth = 16 Mb/s).**
- **Manages both the digital and analog signaling capabilities of the IMACS.**
- **Houses SNMP MIBS for all IMACS WAN and user cards.**
- **Provides extensive diagnostic control for fault isolation and identification.**
- **Houses IP management host for TCP/IP connectivity.**

The IMACS CPU cards provide the intelligence for the system to control the high-speed system buses, provide signaling conversion capabilities, maintain alarm logs and communicate with external network management systems. (NMS)

The CPUs contain the system software which may be either Host Code version v3.x.y (880460) or v6.x.y (880370).

Host Code version 6.x.y supports all standard IMACS user cards, and additionally supports advanced server functionality for frame relay, low bit rate voice compression and IP routing. Host Code version 6.x operates on the Model 880370 XCON (cross-connect) CPU card which supports up to eight WAN connections.

Host Code version 3.x.y supports all standard IMACS user cards. Host version 3.x.y operates on the 880460 BCON (bus-connect) CPU card which supports up to four WAN connections.

CPU Cards

Card Specification

LED indicators	Green for normal operation, red for card fault or test mode			
Operational modes	Model mode	cross connect	drop & insert	terminate
	880460 bus-connect	no	yes	yes
	880370 cross-connect	yes	yes	yes
Maximum number of WAN links	Model 880460	Up to 4 WAN links		
	Model 880370	Up to 8 WAN links		
Support for CPU Redundancy	Model 880460	Yes		
	Model 880370	Yes		
Support for WAN link redundancy	Model 880460	1:1		
	Model 880370	1: N		
Cross-connect	Model 880370 only			
Cross-connect capacity	Access up to 248 timeslots at 64 Kbps in each direction, non-blocking: On each EI time-slot 0 is used for frame alignment & time-slot 16 is optionally used for signaling			
Cross-connect Capabilities	Cross connect up to 248, 64 Kbps timeslots on 8 T1 or EI links in a non blocking matrix. (i.e., any channel to any other channel)			
	Cross connect channels at speeds which are multiples of 56 and 64 Kbps (i.e. Nx56K and Nx64K connections)			
	Broadcast mode connections from one source to up to 32 destinations.			
	Compounding conversion of PCM encoding between T1 and EI systems (i.e. from mu-Law to A-Law)			
	Conversions of supervisory signaling between T1 and EI systems (i.e. ANSI robbed-bit on T1 to ITU-T timeslot 16 CAS on EI)			
Cross-connect	Generate test tones of 300, 1000, and 3000 Hz in either direction on any 64 Kbps connection.			
Diagnostic capabilities	Generate loops and test patterns in either direction on any 56/64 Kbps or Nx56/64 Kbps connection.			
	Monitor and set the state of all "abcd" CAS signaling bits on individual voice channels.			
Software compatibility	880460	880370		
v3.x.y	yes	no		
v6.x.y	no	yes		
Host Software options	Host 3.x.y, order 603xy	Host 6.x.y, order 606xy		
IP Management S/W for Host 3.x.y, order 60101, for TR08 (slc96) support, order 60102				
ANSI T1.603, EN 50 081-1 10/12/9, EN 50 082-1 10/12/9, EN 55022, EN 60950/A1				
EN 61 000-4-2, ENV 50 140 1993, ANSI/UL 14590, CSA C22.2v				
Model 880370 – cross-connect CPU card, 8 T1/EI	Model 880460 - redundant 4 T1/EI bus-connect CPU card			
All CPU cards are supplied with stainless steel faceplates, CE marked				

Standards Compliance Model Numbers

Physical Specification

Card height	8 inches (20cm)		
Card width	15/18 inches (2.35 cm)		
Card depth	71/2 inches (18.75cm)		
Power consumption	model 880460	model 880370	
	1.4 Watts	1.4 Watts	
BTU/hr	4.78	4.78	
Operating temperature	0 to 50 C, 32 to 122 F		
Storage temperature	-20 to 80 C, -4 to 176 F		
Humidity	0 to 95% humidity, non-condensing		
IMACS Platform	891630 IMACS 600, 891830 MACS 800, or 891930 IMACS 900		
Control CPU card	880460 bus-connect or 880370 cross-connect CPU		
System Host Code	3.x.y & 6.x.y or later		
Interface card			
Release 3.x.y	892060 & 892560		
Release 6.x.y	892260, 892360 & 892460.		
Power supply options	All AC and DC power supplies supported		