

IMACS Interface Cards

Features

- Provides physical connections for E1/Tl WAN interfaces.
- Range of Interface Cards to support low-end or high-end functionality
- Optional integral modem for remote connectivity.
- Serial port for local VT100 access.
- Integral Nodal port for alarm activation of external reporting device.
- Integral computer port supports local printer or IP based management via SLIP/PPP
- On-board NVRAM for non volatile storage of system configuration.
- External synchronization options.

The interface cards provide all management and control communications connections to the system and contain the non-volatile RAM in which all configuration information is stored. The interface cards provide all communications, control, and network interfaces to the IMACS system. The use of non-volatile RAM for configuration storage means that all configuration information is retained in case of system power loss or intentional power down. One interface card is required per system.

The control terminal port is used to connect a VT100 or compatible terminal to the IMACS system for node management and control purposes. The Control Terminal port presents an RJ48 female connector with a V24/V28 (RS232) DCE electrical interface. The port is set to VT100 mode for asynchronous operation at 9600 bps with 8 data bits, 1 stop bit, and no parity. The port supports an automatic logout feature after fifteen (15) minutes of inactivity.

The computer port (DB9) connects a local device for printing alarms or can be configured to support SLIP (Serial Line Internet Protocol) for transport of SNMP management information. The computer port presents a DB9 male connector with a V24/V28 (RS232) electrical interface.

The function supported by the nodal port is to provide the form-C contact closure and the physical interface so that the ACO alarm may activate an external reporting device. The nodal port presents an RJ48 female connector with an RS485 electrical interface.

The Modem port is used to connect the Interface card's internal dial modem to a standard telephone line. This port may be used to log into the unit from a remote VT100 terminal or to send system alarms to a remote device. The modem port presents an RJ11 female connector.



IMACS Interface Cards

Card Specification	Configuration Storage	Models 892060 Models 892260, 892360 & 892460					32K NVRAM 128K NVRAM	
	Interfaces	Model	TI/El Links	Computer Port	Control Terminal Interface Port	Modem Port	Internal Modem	External Sync
		892060 892260 892360 892460	8 T1/E1 8 T1/El 8 T1/El 8 T1/El	yes yes yes yes	yes yes yes ves	yes no yes no	yes no yes no	no yes no no

External Sync Options 892260: Single or redundant external sync from framed T1 timing source

Timing source

892x6x: Primary and secondary timing source selectable from WAN interface card or

Internal clock (Stratum 4) Electrical Interface G.703/4 or DSX-1 (with optional CSU) - via WAN card modules

Model 892060, 89226x, 892360 & 892460 Connector Type 1 Female 50 pin RJ27X Telco connector

Computer Port

Connector Electrical Interface

Function

DB9M DTE RS-232, ITU.T V24/V28 Connects to Local Element Management System 8 bit characters plus one start and one stop bit with no parity 19.2Kbps Code set Max Speed

Control Terminal Interface Port

Connector Electrical Interface Function

RJ48F, 8 pin. EIA 561 DCE RS232. ITU-T V24/V28 Connect Local VTI00.compatible Control Terminal local craft interface Maximum 9,600 bps asynchronous 8 bit characters plus one start and one stop bit with no party

Speed: Code set:

Nodal Port Connector

RJ48F, 8-pin

Connector Interface I Alarm Output I Function I Function I management systems end panels. Dry contact
Passive current loop, one normally open loop and one normally closed loop.
Alarm management between co-located IMACS nodes and external alarm

Modem Port Connector Electrical interface Protection

(Model 892060 and 892360 only)
Female 6-pin RJ-11C socket
600 ohm 2-wire balanced
HV Zener. 0.25A fuses on Tip and Ring
Connect internal modem to PSTN (Public Switched Telephone Network) for access to Function

remote operator and remote EMS network management system.

(Models 892060 and 892360 only) ITU-T V.22 his 16 point QAM 2-wire balanced 600 ohm 0.2 A Modem Specification Compatibility: Modulation: Line Interface:

0.2 A FCC Part 68

Ringer Equivalence: Approval: Equalization: Receive automatic adaptive, Transmit fixed compromise -9.5 dBm

Transmit Level:
Receiver Sensitivity:
Dialing Mode:
Speed Supported:
Code Set: -9.5 dBm OFF to ON threshold 48 c OTMF Tone 2.400 bps asynchronous 8 bit characters plus one start and one stop bit with no parity OFF to ON threshold 48 dBm



IMACS Interface Cards

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Standards Telcordia~GR-63~CORE~10/95,~EN~50~081.1~10/12/9,~EN50082-1~10/12/9,~EN~60~950/Al~0,~ITU-T~G.797~1993-10/12/9,~EN~60~950/Al~0,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~19/12/9,~ITU-T~G.797~10/12/9,~ITU-T~G.797~10/12/9,~ITU-T~G

ITU-T V.22bis, ANSI/EIA RS232C, ANSI/UL 1459, EN 55 022, EN61 000-4-2 Level 4, EN 61 00-4-4 Level 2 Compliance

EN 61 000-4-5 Level 2, ENV 50 140 Level 2, EN 61 000-4-4 Level 2, CSA C22.2

Model 892060 - 8 Port T1/El Interface Card with modem **Model Number**

Model 892260 - 8 Port T1/El Interface Card with framed T1 external sync module

Model 892360 - 8 port T1/El Interface Card with modem. Model 892460 - 8 port T1/El Interface Card without modem.

All Interface Cards are supplied with stainless steel faceplates, CE Marked

Physical 8 inches (20 cm) Card Height

2.05

Power Con

BTU/hr

Card Width Card Depth 15/16 inches (2.35cm) 71/2 inches (18.75cm) Specification

> Model 892060 Model 892360 Model 892460 Model 892260 0.6 watts 0.85 watts 0.85 watts 0.85 watts

Oper. Temp 0 to 50 C, 32 to 122F -20 to 80C,-4 to 176 F Storage Temp

Humidity 0 to 95% Humidity. Non-Condensing

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IMACS Chassis Control CPU Card **IMACS Platform** 891630 IMACS 600, 891830 MACS 800, or 891930 IMACS 900

880460 supports 892060 880370 supports 892260, 892360 & 892460. 3.x.y & 6.x.y or later

System Host Code Interface Card

892060 Release 3.x.y

Release 6.x.y 892260, 892360 & 892460.

Power Supply Options All AC/DC power supplies supported