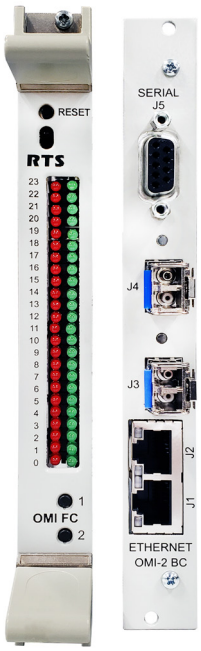
Technical Data Sheet

Innovating the Future of Global Communications

OMI-2
OMNEO Matrix Interface



The OMI-2 (Second Generation OMNEO Matrix Interface) card set for RTS ADAM and ADAM-M intercom frame provides fully IP compliant connectivity into the ADAM intercom BUS for OMNEO compatible devices. The card set consists of a back card and front card and supports fiber optic cabling (through the use of optional fiber modules) and RJ45 copper Ethernet connections.

OMNEO is a fully Layer 3 compliant media-networking architecture, uniting devices normally inaccessible without time-consuming and expensive cabling projects, planned weeks or months ahead of the implementation of the actual system. OMNEO fully supports currently available network infrastructure to provide low cost of implementation. OMNEO also provides extremely low latency and high audio fidelity which make it useable in virtually any application.

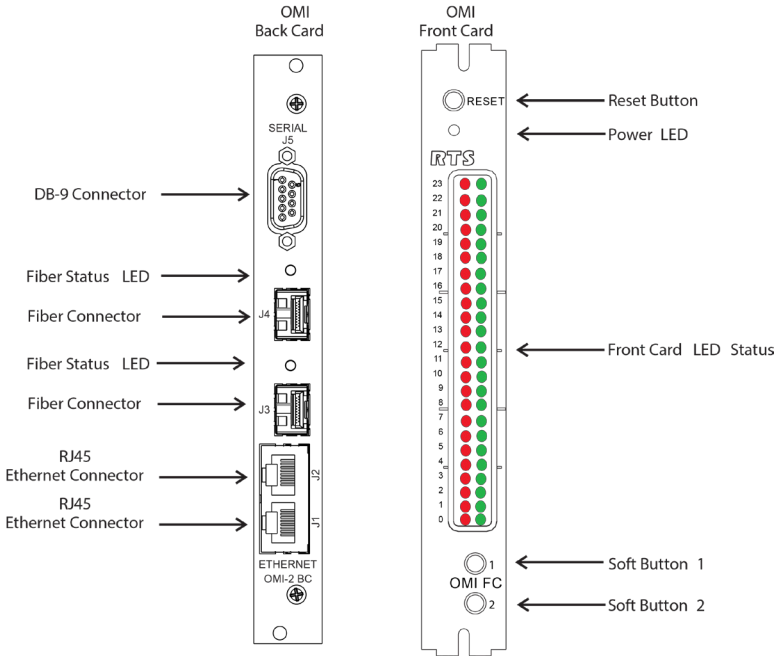
OMNEO employs Audinate's Dante, a standards-based, routable IP media transport technology, and OCA (Open Control Architecture) as the control protocol, which is a proposed open public standard used for control and monitoring of professional media networks. Together this allows for the freedom to assemble from 2 to 10,000 cooperating devices that can exchange studio-quality, synchronized, multi-channel audio and share common control systems.

Through the use of multiple open standards, OMI-2 provides an ideal solution for Layer 2 or Layer 3 media networking within a variety of IT infrastructures.

Features

- Supports Layer 2 or 3 IT environments and DHCP and Bonjour Protocols
- Fully Routable Synchronized Audio Across Multiple Subnets
- Provides up to 512 ports in a single ADAM Frame (8 OMI-2 Cards) or 256 Ports in an ADAM-M Frame (4 OMI-2 Cards)
- Supports Fiber (with optional single or multimode SFP fiber module) and Cat-5/6 and Cat-5e (Ethernet 10/100MB and 1GB) for Simplified Wiring
- Up to 64 ports per card maximum. Field upgradable firmware to ensure compliance with future changes to industry standards
- OMI interoperates with PoE based switches

Line Drawing



Specifications

Power

Power Consumption.....14.9W @5V(Front and Back combined)

Audio Performance

THD+N at 1KHz .....better than 0.01%@8dB

Frequency Response

.....within ±1dB from 20Hz - 20kHz

Channel Support

64 Channels

Connections

2-Fiber Optic SFP Module with LC Connector

Single Mode Distance .....9.32 miles (15km)

Multi-Mode Distance .....1.86 miles (3km)

RS232/485 using a DB-9 connector

2- RJ45 Connectors

Environmental

Weight

Front Card: .....0.65lbs (.29kg)

Back Card: .....0.30lbs (.14kg)

Temperature

Operating: .....32°F to 122°F (0°C to 50°C)

Storage: ..... -40°F to 158°F (-40°C to 70°C)

NOTE: The fiber optic transceivers provide Class 1 eye safety by design and do not emit accessible laser radiation levels in excess of the acceptable emission limit (AEL) within the inherent design or intended use of the laser and do not pose a hazard under normal operating conditions. These low powered lasers are incapable of producing injury when used as designed and intended and are exempt from engineering and administrative controls. A Class 1 laser could potentially have an embedded higher class rating internally. During service procedures with service panels removed and interlocks bypassed, it might be necessary to comply with higher class laser control measures during the service/repair procedure. Class 1 includes lasers that were formerly classified as Class 2.

Order Information

- OMI-2 16CH KIT • OMNEO GEN2 16 CH KIT
- OMI-2 32CH KIT • OMNEO GEN2 32 CH KIT
- OMI-2 48CH KIT • OMNEO GEN2 48 CH KIT
- OMI-2 64CH KIT • OMNEO GEN2 64 CH KIT
- OMI-2 16CH KIT@PI • OMNEO GEN2 16 CH KIT INSTALLED
- OMI-2 32CH KIT@PI • OMNEO GEN2 32 CH KIT INSTALLED
- OMI-2 48CH KIT@PI • OMNEO GEN2 48 CH KIT INSTALLED
- OMI-2 64CH KIT@PI • OMNEO GEN2 64 CH KIT INSTALLED

The specification information is preliminary and is subject to change without notification.

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