

INNOVATING THE FUTURE OF GLOBAL COMMUNICATIONS

RTS is the industry leader in professional intercom systems, providing solutions that combine forward-thinking functionality, real-world reliability and superior sound quality.

At the forefront of broadcast intercom technology for over forty years, we are the brand most-trusted by the biggest names in the business. Our family of digital matrices is the most complete and widely used line of intercoms in the world, proven in the most critical and demanding applications.

Today, our latest generation of advanced digital audio matrix and keypanel products is based upon the uniquely powerful and flexible OMNEO IP technology for media transmission and system control. OMNEO has been quickly adopted as the new performance standard by major network customers across the globe for coordinating broadcasts of the world’s largest events via systems of unparalleled size and sophistication.

RTS systems are also scalable for a wide range of applications beyond broadcasting, including in-house production communications for houses of worship and live entertainment, and for failsafe communications in the nuclear power industry. A top priority for us is the backwards compatibility of our new products, so they can integrate seamlessly with legacy systems to extend the value of the initial investment. RTS offers the widest variety of matrix interfaces in the market: RVON (VoIP), MAD1 and OMNEO (Dante plus OCA, AES70), connecting via Ethernet CAT-5e/6, fiber and copper analog.

RTS helps professionals communicate clearly with ease and efficiency, so they can focus on content instead of hardware. Whether for applications large or small, we demonstrate our commitment to our users by Innovating the Future of Global Communications.

www.rtsintercoms.com

ODIN ORDERING INFORMATION

ODIN 16-ports	F.01U.329.396
ODIN 64-ports	F.01U.329.398
ODIN 32-ports	F.01U.329.397
ODIN 128-ports	F.01U.329.399
16-port upgrade	F.01U.329.401

ODIN SPECIFICATIONS

Physical Dimensions (mm)

Width	439 (excl. rack ears) 482.6 (incl. rack ears)
Height	43.65
Depth	346.34 (to back of unit) 17.51 (max front protrusion) 11.78 (max rear protrusion)
Weight	5.2 (kg)
Voltage	100 – 240 (VAC)
Frequency	50-60 (Hz)
Power, Max	50 (W)
Operating Temp	0 – +50 (C)
Storage Temp	-40 – +70 (C)

Connectors

OMNEO	RJ-45 (x2), Provision for SFPs (x2)
Ethernet	Front and rear RJ-45s, 1 Gbit/s
AIO	RJ-45 (x16) for analog keypanels, USOC or 568B wiring
Wired Partyline	3-pin female XLRs (x2) for RTS, Audiocom, and Clear-Com formats
General	Locking terminal block connector w 24 pins, 4 relays and 4 optocoupled inputs
Word Clock	BNC-connector (x1) for Word Clock input
Inter-Frame Link	Two uplink, two downlink, SFP-type for 2 Gbit/s singlemode

Front panel

Display	576 x 90 pixel TFT display with full color
Menu Navigation	Two rotary encoders with push-button function
Keypad	Full numeric keypad
Power Switches	Two independent illuminated recessed switches
Cooling Fans	Side-to-side high reliability DC cooling fans with redundancy

Accessories

Mechanical	Rear rack-mount brackets included, recommended for high-vibration use cases
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ODIN
OMNEO DIGITAL INTERCOM



KP-SERIES

LEGACY KEYPANELS

TWO WIRE & FOUR WIRE

ROAMEO

UNIVERSAL
BELTPACKS

REVOLUTIONIZE YOUR INTERCOM ... IN ONE RACK UNIT

A new core product in the RTS portfolio, ODIN condenses decades of experience and the latest RTS innovations into a compact single rack unit package that offers state-of-the-art IP technology along with analog connectivity.

Where previous-generation digital matrix products were significantly larger and more costly to own and operate, ODIN's feature set and form factor are designed to make a professional matrix solution more accessible and easier to use than ever before, opening up the benefits of IP-based communications for wide range of new markets and users of all levels.

In keeping with the RTS principles of forward thinking and backwards compatibility, ODIN can seamlessly integrate into the most sophisticated, large-scale intercom operations, extending the value of the initial investment, while also providing a path for system expansion for smaller users who want to upgrade existing RTS systems to the latest technologies.

Whether the user wants to expand intercom functionality with an IP-based system at a regional theater or large house of worship, or whether the goal is to start streamlining a larger system's footprint and cost of operation in an OB van or broadcast control room —

ODIN stands apart as the most comprehensive intercom solution RTS has ever made.



SCALABLE

Easily expand system as needed by adding licenses or more ODIN units: start with 16 ports, extend up to 128 ports, or connect eight units seamlessly for a 1024-port matrix. No competing product has this level of scalability.

VERSATILE

Supports Dante-compatible OMNEO IP technology*, four-wire and two-wire for the broadest connectivity to other components, all with the highest-quality audio.

USER-FRIENDLY

High-resolution icon-based front-panel color user interface for intuitive operation and immediate configuration directly from the unit.

EFFICIENT

Requires less power, less space and less cooling for lower environmental impact and lower total cost of ownership.

FLEXIBLE

Reallocate ports to any hardware type with no adapters or special boards required – future proof for evolving system with audio over IP technology and backwards compatible with legacy products.

DECADES OF PROFESSIONAL INTERCOM
ENGINEERING EXPERTISE, MULTIPLE INDUSTRY-
LEADING RTS TECHNOLOGIES AND ALL THE
SCALABILITY AND CONNECTIVITY YOU NEED
TO EASILY ADD TO YOUR SYSTEM

ALL PACKED INTO A
SLEEK, USER-FRIENDLY
1RU ENCLOSURE

ODIN COMBINES THE FUNCTIONALITY OF MULTIPLE RTS TECHNOLOGIES INTO ONE FUTURE-PROOF PACKAGE

OMI-64

The capacity of two OMI-64 cards (64-ports each) -- up to 128 channels of digital audio over IP in OMNEO format – fully compatible with Dante and AES67.

AIO-16A

Connections for up to 16 analog keypanels

MC11e

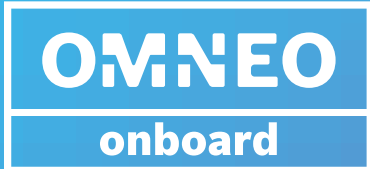
A powerful master controller

DSI-2008

Built-in connectors for analog two-wire partyline

ADAM power supplies

Redundant power supply for an extra layer of protection against failure



OMNEO ONBOARD

The latest generation of RTS advanced digital audio matrix and keypanel products is based upon the uniquely powerful and flexible OMNEO IP technology for media transmission and system control. OMNEO is an architectural approach to connecting devices that need to exchange information such as audio content or device control.

Built upon multiple technologies, including IP and open public standards, OMNEO supports the technologies of today--such as Audinate's Dante--while adopting the standards of tomorrow. RTS uses OMNEO as our platform to embrace and employ open standards. OMNEO offers a professional-grade media networking solution that provides interoperability, unique features for easier installation, better performance, and greater scalability than any other IP offering on the market.

A NEW BENCHMARK FOR INTERACTION

With ODIN, all setup and configuration can be done externally by connecting a laptop; the most common operations can be handled directly on the front panel via the icon-driven advanced graphical user interface.

This intuitive GUI makes it easy to get an overview of channel status, or use the menus to quickly find the matrix setting you need to modify. Icons support the most common setup and configuration tasks and are displayed in vivid colors on a high-resolution TFT screen.

The AZedit and IPedit software applications have been updated to support ODIN for more complex configuration tasks.

GET CONNECTED

- Whether you use two-wire, wireless, or matrix-based intercoms, ODIN can serve as the core of your RTS system
- Use ODIN as the base station for your ROAMEO wireless keypanel beltpack system
- ODIN is fully compatible with RTS Trunking technology, allowing ODIN to interoperate with other RTS matrix products including the popular ADAM and ADAM-M
- Dante-enabled OMNEO is standard on RJ-45 connectors or is available using optional optical fiber SFP connectors. Users can flexibly define ports to use any of the available connector types.

KEY FEATURES AT A GLANCE

- As a user's capacity needs evolve, a single ODIN can grow from the basic 16 ports to a maximum of 128 ports, and a maximum of eight ODIN units can be interconnected via an optical Inter-Frame Link to create a single matrix with up to 1024 ports
- Compact 1RU form factor makes ODIN perfect for OB vans and other applications where space is at a premium
- Built-in Dante-enabled, AES67/AES70-compatible OMNEO technology makes the transition to IP easy
- With connectors for OMNEO, four-wire and two-wire, ODIN supports ROAMEO IP-based wireless technology, KP-Series keypanels and, as always, RTS legacy keypanels.
- Port expansion via software upgrade – no additional hardware required

- Five cooling fans (two are redundant)
- Energy-efficient design uses less than 50 watts, minimizing operating costs
- Color display with intuitive graphical user interface based on icons
- Two XLR-connectors for wired partyline in one of three user-selectable formats

- 1 Dual RJ-45 digital audio connectors
- 2 Connectors for SFPs – hook up digital audio via optical fiber
- 3 Built-in connectors for analog party-line
- 4 General-purpose Input/output terminal block for four relay outputs and four optocoupled inputs

- 5 16 connectors for analog keypanels or bidirectional audio
- 6 Two IEC power connectors for connection to redundant power supply
- 7 External word clock input
- 8 Front and rear management ports for connecting a laptop

