

OMN-ARNIE ARNI E OMNEO Interface

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- ▶ Better scalability through the use of either a DHCP server or DNS server, which extends the use of PTP over multiple subnets
- ▶ Supports up to 450 OMNEO nodes across a routed network with multiple subnets, or up to 10.000 nodes across 40 subnets when used in conjunction with an ARNI-S device in each subnet
- ▶ Supports redundancy

The ARNI (Audio Routed Network Interface) component of the OMNEO system enhances the scalability of the system.

Functions

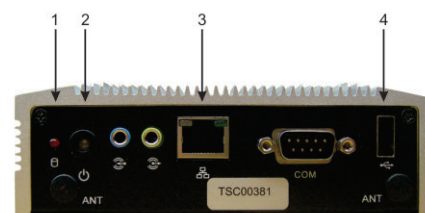
High performance DHCP (Dynamic Host Configuration Protocol) server which eliminates the need to use the IPv4LL protocol.

As a DHCP server, ARNI supports one (1) subnet when there is no DHCP server available.

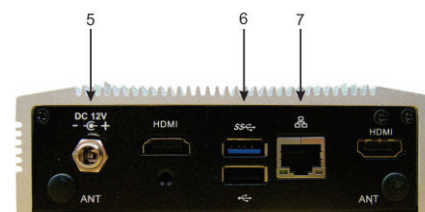
DNS-SD (Domain Name System – Service Directory) server which is used to discover all OMNEO equipment on a (routed) network without the need and load for Multicast DNS.

ARNI also extends the use of PTP (Precision Time Protocol) over multiple IP (Internet Protocol) subnets by acting as a boundary clock, synchronized to a master clock using unicast PTP and acts as the clock master in its own subnet using multicast PTP to synchronize the OMNEO nodes.

The connectors not described are used for computer peripherals (monitor, keyboard, mouse, etc.).



Front View



Rear View

1. Power and hard disk drive LED indicators
2. Power button and Power LED indications
3. LAN port
4. USB port
5. DC Input – 2-postion header power supply connector
6. USB port
7. LAN Port (non functional)

Indicators

Power supply and hard disk drive LED indicators.

Interconnections

- 2x LAN port
- 2x USB port
- 1x DC Input (2-postion header power supply connector)

Certifications and approvals

| | |
|--------|---------------------------|
| EMEA | CE |
| China | CCC |
| US | UL / FCC |
| JP | PSE |
| EMC | CD/FCC Class A, CCC, BSMI |
| Safety | UL, CCC, BSMI, CB |

| Region | Regulatory compliance/quality marks |
|--------|-------------------------------------|
| Europe | CE |

Parts included

| Quantity | Component |
|----------|------------------------------|
| 1 | ARNI |
| 1 | AC to DC converter |
| 1 | Mains cord EU version* |
| 1 | Recovery USB flash drive |
| 1 | ADVANTECH ARK-1123H software |
| 1 | Safety instructions |

*See the chapter ordering information for ordering details of the region related version.

Technical specifications**Electrical**

| Power supply | Specification |
|-------------------|---|
| Power adapter | 110-240VAC, 50/60Hz AC to DC, DC 12V/36W |
| Supply voltage | 12VDC |
| Power consumption | 15 W typical. 30 W maximum. |

| Processor System | Specification |
|------------------|---|
| CPU | Intel Celeron™ Processor J1900 Quad Core 2.0 GHz SoC |
| Frequency | 2.0 GHz |
| L2 Cache | 2 MB |

| Processor System | Specification |
|------------------|-----------------------------|
| System Chipset | 7th Gen. Intel Graphic Core |
| BIOS | AMI EFI |

| Memory | Specification |
|------------------|---------------------|
| Type | DDR2 400/533Mhz |
| Maximum Capacity | 2GB |
| Socket | 1 x 204-pin SO-DIMM |

| Storage | Specification |
|----------------|--|
| 2.5" Drive Bay | 1 x 2.5" SATA HDD Bay (Max Height 9.5mm) |

| Ethernet | Specification |
|----------|--|
| LAN 1 | 10/100/1000Mbps Ethernet controller, support Wake On LAN |
| LAN 2 | Non functional |

| I/O Interface | Specification |
|------------------|------------------------------|
| Serial Interface | 1 x RS-232 Port |
| USB Interface | 2 x USB ports 1 x USB 3.0 |

Mechanical

| Item | Specification |
|------------------------|--|
| Dimensions (W x H x D) | 133.8 x 43.1 x 94.2 mm (5.27. x 1.7. x 3.71 in) |
| Weight | 0.45 kg (1.30 lb) |
| Color | Aluminum housing |

Environmental

| Item | Specification |
|-----------------------------------|---|
| Operating temperature | -20 °C to +60 °C (-4 °F to +140 °F) |
| Storage and transport temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Relative humidity | < 95 % (non-condensing) |

Ordering information

OMN-ARNIE ARNI E OMNEO Interface

Enhances the scalability of the OMNEO system by its ability to act as a DHCP (Dynamic Host Configuration Protocol) server. Supports up to 10.000 devices across 40 subnets when used in parallel with an OMN-ARNIS. By itself, it can support up to 450 devices that are not supported by an OMN-ARNIS (for example, five (5) subnets of 90 OMNEO nodes or 10 subnets of 45 OMNEO nodes).

Order number **OMN-ARNIE**

Accessories

ARNI RM GEN-2 ARNI Rack Mount Shelf Kit G2

19" rack mount shelf for two OMN-ARNIx.

Order number **ARNI RM GEN-2**

PWR CORD ARNI EU ARNI Power cord - EU

EU mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI EU**

PWR CORD ARNI UK ARNI Power cord - UK

UK mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI UK**

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