

# 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 nodes on a single subnet and up to 40 subnets totaling 10.000 devices
- ▶ Supports redundancy

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

## Functions

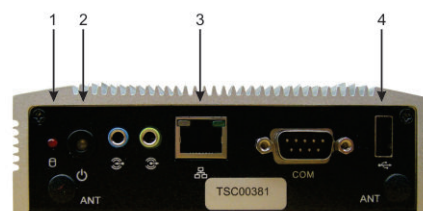
High performance DHCP (Dynamic Host Configuration Protocol) server which eliminates the need to use the IPv4LL protocol.

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

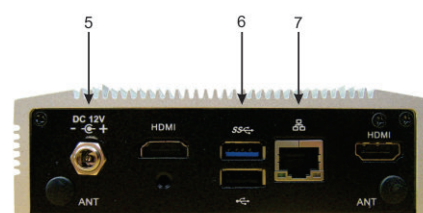
DNS-SD (Domain Name System – Service Directory) server which is used to discover all OMNEO equipment on a (routed) network without the need and load for Multicast DNS.

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 JP ARNI Power cord - Japan

JP mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI JP**

#### PWR CORD ARNI UK ARNI Power cord - UK

UK mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI UK**

#### PWR CORD ARNI US ARNI Power cord - US

US mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI US**

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