

# OMN-ARNIS Network synchronizer single

## OMNEO



- ▶ Better scalability through the use of either a DHCP server and/or DNS server
- ▶ Allows PTP audio clock synchronization over multiple subnets
- ▶ Supports up to 450 devices in a single subnet optionally, in combination with the OMN-ARNIE
- ▶ Supports redundancy

The OMN-ARNIS enhances the scalability of the OMNEO system, acting as a high performance Dynamic Host Configuration Protocol (DHCP) server. The device supports up to 450 OMNEO devices in a single subnet standalone environment. It can also be used in routed networks in combination with the OMN-ARNIE to support subnets of up to 450 OMNEO devices.

### **i Notice**

While the device supports up to 450 devices, you always need to consider the limitations of your specific system.

### Functions

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

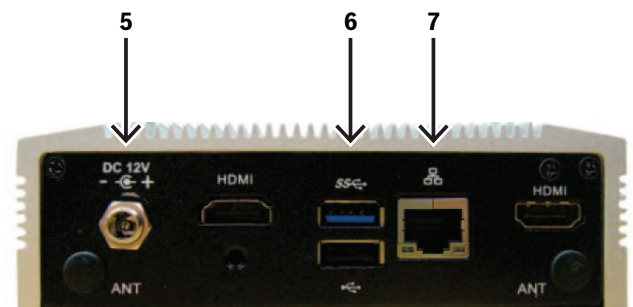
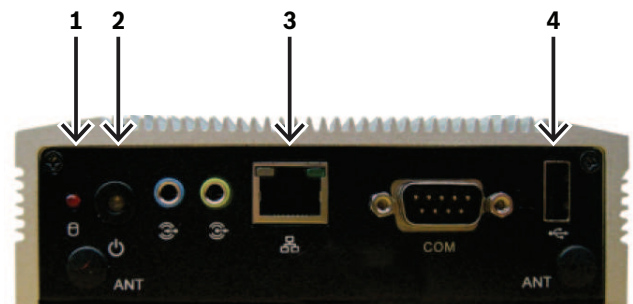
ARNI acts as a high performance DHCP server optimized for the use cases of the OMNEO systems during power up and 24/7 operations. As a DHCP server, ARNI supports one (1) subnet when there is no DHCP server available.

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 grandmaster clock (OMN-ARNIE) using unicast PTP, and acts as the multicast PTP master for its own subnet.

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

### Front and rear view



1 Power and SSD LED indicators

2 Power button and Power LED indications

|   |                |
|---|----------------|
| 3 / 7 LAN port                                      | 4 / 6 USB port |
| 5 DC Input: 2-postion header power supply connector |                |

**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)

**Regulatory information**

|        |                           |
|--------|---------------------------|
| 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                                  | EMEA |

**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 Ordering information for ordering details of the region-related version.

**Technical specifications****Mains power supply**

|                                     |                   |
|-------------------------------------|-------------------|
| Input voltage (VAC)                 | 100 VAC – 240 VAC |
| Power frequency                     | 50 Hz; 60 Hz      |
| Alternate current to direct current | 12 V / 36 W       |

**Electrical**

|                                 |                                |
|---------------------------------|--------------------------------|
| DC power supply                 | 12 VDC                         |
| Power consumption (W) (typical) | 15 W                           |
| Power consumption (W) (maximum) | 30 W                           |
| Transmission frequency (GHz)    | 2 GHz                          |
| L2 cache                        | 2 MB                           |
| BIOS                            | AMI EFI                        |
| Memory type                     | DDR2 400/533 Mhz               |
| Memory (RAM) (GB)               | 2 GB                           |
| Internal storage                | SSD                            |
| Ethernet type                   | 10/100/1000BASE-T              |
| Number of USB ports             | 3                              |
| Processor type                  | Intel Celeron™ Processor J1900 |

**Mechanical**

|                            |                                 |
|----------------------------|---------------------------------|
| Dimension (H x W x D) (mm) | 43.10 mm x 133.80 mm x 94.20 mm |
| Dimension (H x W x D) (in) | 1.7 in. x 5.27 in. x 3.71 in.   |
| Weight (g)                 | 450 g                           |
| Weight (lb)                | 1.30 lb                         |
| Color                      | Silver                          |
| Material                   | Aluminum                        |

**Environmental**

|   |                 |
|---|-----------------|
| Operating temperature (°C)                      | -20 °C – 60 °C  |
| Operating temperature (°F)                      | -4 °F – 140 °F  |
| Operating relative humidity, non-condensing (%) | 0% – 95%        |
| Storage temperature (°C)                        | -40 °C – 85 °C  |
| Storage temperature (°F)                        | -40 °F – 185 °F |
| Transportation temperature (°C)                 | -40 °C – 85 °C  |
| Transportation temperature (°F)                 | -40 °F – 185 °F |

## Ordering information

### OMN-ARNIS Network synchronizer single

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

Order number **OMN-ARNIS | F.01U.311.135**

## Accessories

### ARNI RM GEN-2 Rack mount shelf kit for ARNI

19" rack mount shelf for two OMN-ARNIX.

Order number **ARNI RM GEN-2 | F.01U.311.606**

### PWR CORD ARNI EU Power cord for ARNI, EU

EU mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI EU | F.01U.316.527**

### PWR CORD ARNI UK Power cord for ARNI, UK

UK mains power supply cord for Audio Routed Network Interface.

Order number **PWR CORD ARNI UK | F.01U.316.528**

## Services

### EWE-ARNIS-IW 12 mths wrty ext ARNI-S OMNEO IF

12 months warranty extension

Order number **EWE-ARNIS-IW | F.01U.365.528**

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