OMN-ARNIE Network synchronizer enterprise
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 OMNEO devices across a routed network with multiple subnets, or up to 10.000 devices across 40 subnets when used in conjunction with an ARNI-S device in each subnet
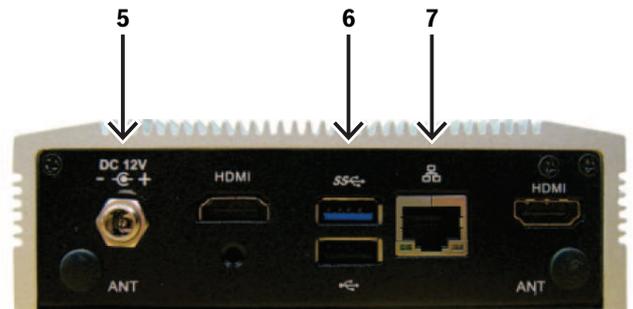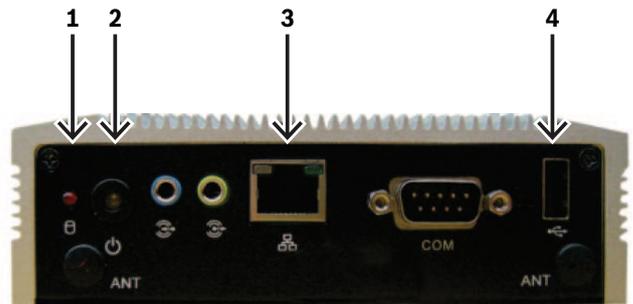
▶ Supports redundancy

The OMN-ARNIE enhances the scalability of the OMNEO system, acting as a high performance Dynamic Host Configuration Protocol (DHCP) server. The device supports up to 10.000 devices across 40 subnets when used in combination with an OMN-ARNIS. By itself, it can support up to 450 devices that are not supported by an OMN-ARNIS, for example: 5 subnets of 90 OMNEO devices or 10 subnets of 45 OMNEO devices.

ⓘ **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 grandmaster PTP clock for all subnets with OMNEO devices and as a multicast 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-ARNIE Network synchronizer enterprise
The ARNI (Audio Routed Network Interface) component of the OMNEO system enhances the scalability of the system.
Order number **OMN-ARNIE | F.01U.311.136**

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-ARNIE-IW 12 mths wrty ext ARNI-E OMNEO IF
12 months warranty extension
Order number **EWE-ARNIE-IW | F.01U.365.529**