DBP

Digital Belt Pack

The Digital Belt Pack (DBP) is one of RTS' initial offerings in the wired digital party line solution space. The DBP provides TALK and LISTEN capability for up to four configurable audio conferences. In addition, the keys can be assigned for dedicated resources such as relay control.

When operating as a digital party line device, the DBP connects to the OMNEO Main Station (OMS). The DBP can also be connected directly via OMNEO to any of RTS' matrix products. This includes OMI cards in ADAM (or ADAM-M) frames or OMNEO ports on ODIN frames. When connected to an RTS OMNEO matrix, the DBP acts as a wired, 4-button keypanel. The DBP automatically determines the correct mode of operation (digital party line connection to OMS or keypanel connection to the matrix) at power on.
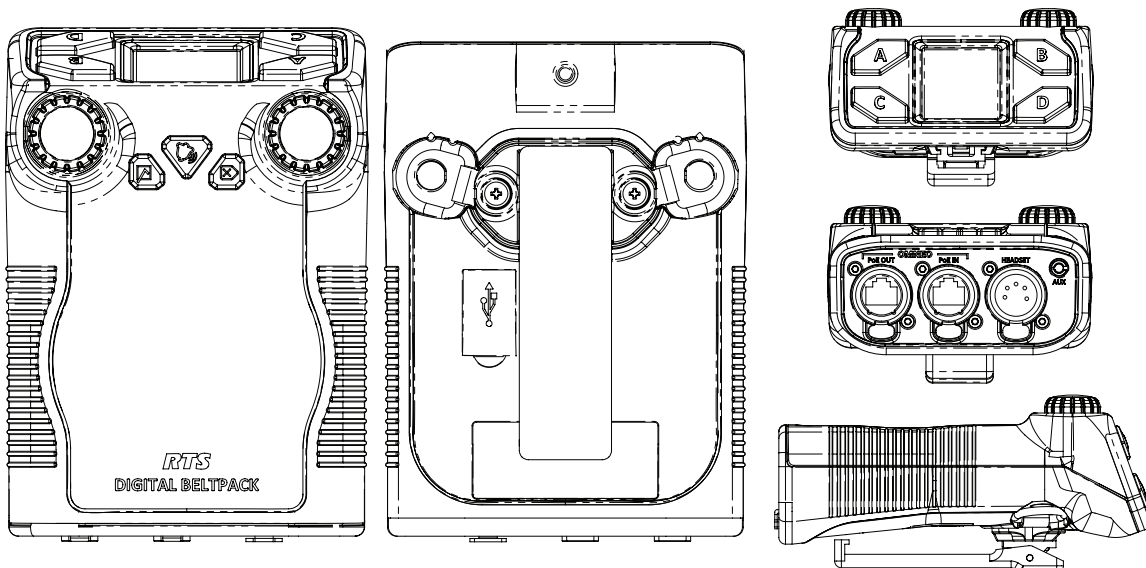
The DBP recovers power over an 802.3af or 802.3at compliant switch. One Ethernet port (PoE In) connects to PoE compliant power sourcing equipment. A second port (PoE Out) is available for daisy chain connections to other DBPs. The DBP comes in a rugged, over-molded enclosure which is IP-53 compliant. It has a full-color TFT display and an icon-based menu interface which allows for local configuration of key customer preferences.

Features

- Incorporates both XLR and 3.5mm TRRS connectors for headsets which are available in 3 different headset XLR options: 4-pin female, 4-pin male, and 5-pin female. The 5-pin female headset supports stereo audio.

- PoE powered via an 802.3af or 802.3at managed switch or PoE injector. Contains a PoE In and PoE Out port which allows up to 6 DBPs to be daisy-chain connected to the same PoE(+) switch port.

- Supports Bluetooth audio connectivity using either an IO Gear GBU522 dongle or an LM Technologies LM506 dongle.

- DBP can be connected to the OMNEO main station (Digital Partyline) or an OMNEO capable matrix (OMI card or ODIN). DBP can support up to four active Party Lines. 40 DBPs can be connected to OMS (based on the model), 64 DBPs can be connected to one OMI card (based on the model), 128 DBPs can be connected to one ODIN (based on the model).

- Incoming CALL notifications via audible alerts or haptic vibration.

Line Drawing

Power Supply:

DC PoE.. 802.3af / 802.3at
Maximum Power
Consumption ....4.0W (PoE DC Input)

Environmental:

Operating
Temperature .... -4° F – 113° F (-20° C – 45° C)
5% to 90% relative humidity

Storage
Temperature .... -4° F – 158° F (-20° C – 70° C)
15% to 90% relative humidity

Dimensions:

5.51 in. (140mm) L x 3.94 in. (100mm) W x 2.64 in. (67mm) D

Weight:

DBP .... 0.75 lbs (340 g)

Microphone Pre-Amplifier:

XLR Input:

Electret Mic Input...-42.5 dBu Nominal
Dynamic Mic Input...-50 dBu Nominal
Frequency Response (LEC disabled)..................................120 Hz to 20 kHz
Frequency Response (LEC enabled) ....120 Hz to 7.4 kHz

3.5mm Input:

Electret Mic Input...-42.5 dBu Nominal
Frequency Response (LEC disabled)..................................120 Hz to 20 kHz
Frequency Response (LEC enabled) ....120 Hz to 7.4 kHz

Bluetooth Input:

Frequency Response ....70 Hz to 3.4 kHz

Headphone Amplifier:

XLR Headphone Response (150 Ohm load)........................30 Hz to 19 kHz
3.5mm Headphone Response (32 Ohm load).......................50 Hz to 19 kHz
Bluetooth Headphone Response..30 Hz to 3.4 kHz

Aux In

Nominal Input ....-4.3 dBu
Frequency Response (600 Ohm load) ....50 Hz to 20 kHz

Aux Out

Nominal Input ....2.2 dBu
Frequency Response (600 Ohm load) ....25 Hz to 20 kHz

OMNEO Ports (PoE In and PoE Out):

Maximum Capacity...2 Full-duplex ports
Copper Connector Type RJ-45
Format ....IEEE 802.3 compliant
Copper Ethernet Speed...100/1000 Mbps

Bluetooth:

Bluetooth Version 4.0
Approved dongles...IO Gear GBU522
LM Technologies LM506
Range .... 15 ft (5 m)
Audio Codec...SBC

TFT Display:

Active Area ....27.72 mm (wide) x 27.72 mm (high)
Dot Resolution..240 x 240 pixels
Color Resolution...16-bit (64K) RGB color
View Angle..80° (typical, all directions)
Protective Lens...Anti-Glare / Anti-Reflective

Approvals:

- CE Compliant
- UL Certified

F.01U.380.825 - DBP Technical Manual

F.01U.394.663 - DBP Quick Install Guide

F.01U.380.819 - OMS Installation Manual

F.01U.380.820 - OMS Technical Manual - https://products.rtsintercoms.com/binary/OMS_om_F01U380820_en.pdf

F.01U.345.091 - ODIN Installation Manual

F.01U.345.086 - ODIN Technical Manual - https://products.rtsintercoms.com/binary/F01U345086.pdf

F.01U.273.977 - OMI Quick Start Guide - https://products.rtsintercoms.com/binary/F01U273977.pdf

F.01U.261.047 - OMI Technical Manual - https://products.rtsintercoms.com/binary/F01U261047.pdf

Order Information

Order No.	Description
DBP 4M	IP 4ch beltpack 4M headset
DBP 4F	IP 4ch beltpack 4F headset
DBP 5F	IP 4ch beltpack 5F headset

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