

Panasonic

User's manual

DTL Wireless Link Wireless Unit

Model No. **BN-SW60ANL0**



Panasonic Corporation Connector Solutions Company

1-15 Matsuo-cho Kadoma-shi Osaka, JAPAN 571-8504

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Features

The DTL Wireless Link(DTLWL) is the system to connect information network between carriages wirelessly. The DTLWL is integrated in the on-board train system and enables the ultra-high speed information network over a train.

The DTLWL is capable of handling over 1 Gigabit data rate wirelessly and equips Ethernet ports as data transmission interface, therefore this is a best solution to replace from Gigabit Ethernet cable. In addition, since an Ethernet port supports Power on Ethernet spec (IEEE802.3at), single cable connection is required for system integration. The DTLWL is designed as dedicated area network with minimal incoming/outgoing interference, so that there is no interference from a train system on one truck to the other system on other truck.

Wireless unit has wireless communication function of 60 GHz.

Main Specifications

Center frequency	60.48GHz
Frequency bandwidth	1.76GHz
Transmitt Power	8dBm
Distance coverage	0.9m or less
Data Rate	900Mbps (Typ.)
Interface	USB3.0 (Special connector)
Power voltage	DC +5.0V (from USB Connector)
Power consumption	2.55W or less
Usage conditions	Storage Temperature : -40 to +80 °C Storage Humidity : 5 to 95% no condensation Operating Temperature : -40 to +50 °C Operating Humidity : <75% (in average) <95% (up to continuous 30 days)
External dimensions	160(W) x 160(H) x 110.3(D) mm (does not include protrusions)
Body weight	About 1.6kg

Precautions

ALWAYS FOLLOW THESE DIRECTIONS

- Be sure to observe these safety precautions because they are designed to protect you or those around you from causing injury and to avoid unnecessary damage to the property.
- The symbols below indicate the levels of danger or damage that can be caused if the particular precautions are not observed.



Warning

This symbol indicates that incorrect handling poses a risk of causing death or serious injury.



Caution

This symbol indicates that incorrect handling poses a risk of causing injury or damage to the product or property.

- The following symbols show specific directions:



Don't

Denotes things not to do. (Prohibition)



Do not disassemble

Denotes the units not to disassemble.



Do

Denotes mandatory instructions (matters that must be complied with)



Warning



Do not disassemble

Do not attempt to disassemble or remodel

Fire, burns, injury or electric shock may result.



Warning



Do

When there is abnormality, stop using it immediately.

If smoke comes out, smells, the outside deteriorates, as it is, it may cause injury due to fire or falling, damage to the equipment.



Do

Install in a place that can withstand the total weight.

If the strength is insufficient, it may cause injury or accident due to falling.



Do

Check regularly.

If the metal fittings and screws rust, it may cause injury or accident due to falling.



Do

Tighten the screws and bolts with the specified torque value.

Falling may cause injury or accident.



Do

Please use 20 cm away when using the product

The radio wave may adversely affect the operation of electronic medical equipment.



Don't

Do not install other than the specified method.

It may cause accidents such as falling.



Don't

Do not dangle, do not substitute for footholds.

It may cause accidents such as falling.



Don't

Do not use outside the rating.

It may cause fire or electric shock.

Installation Precautions

Please refer to the installation manual for installation.

Before installing and connecting this equipment, check the necessary peripheral equipment and cables and prepare.

CE Declaration of Conformity

C€0168

Hereby, Panasonic declares that this "BN-SW60ANL0" is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at <http://panasonic.xxx/xxxx/xxxx.pdf>.

Declaration of Operation

This equipment has been so constructed that the product complies with the requirement of with Article 10(2) as it can be operated in at least one Member State as examined and the product is compliant with Article 10(10) as it has no restrictions on putting into service in all EU member states.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Notice

- This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.