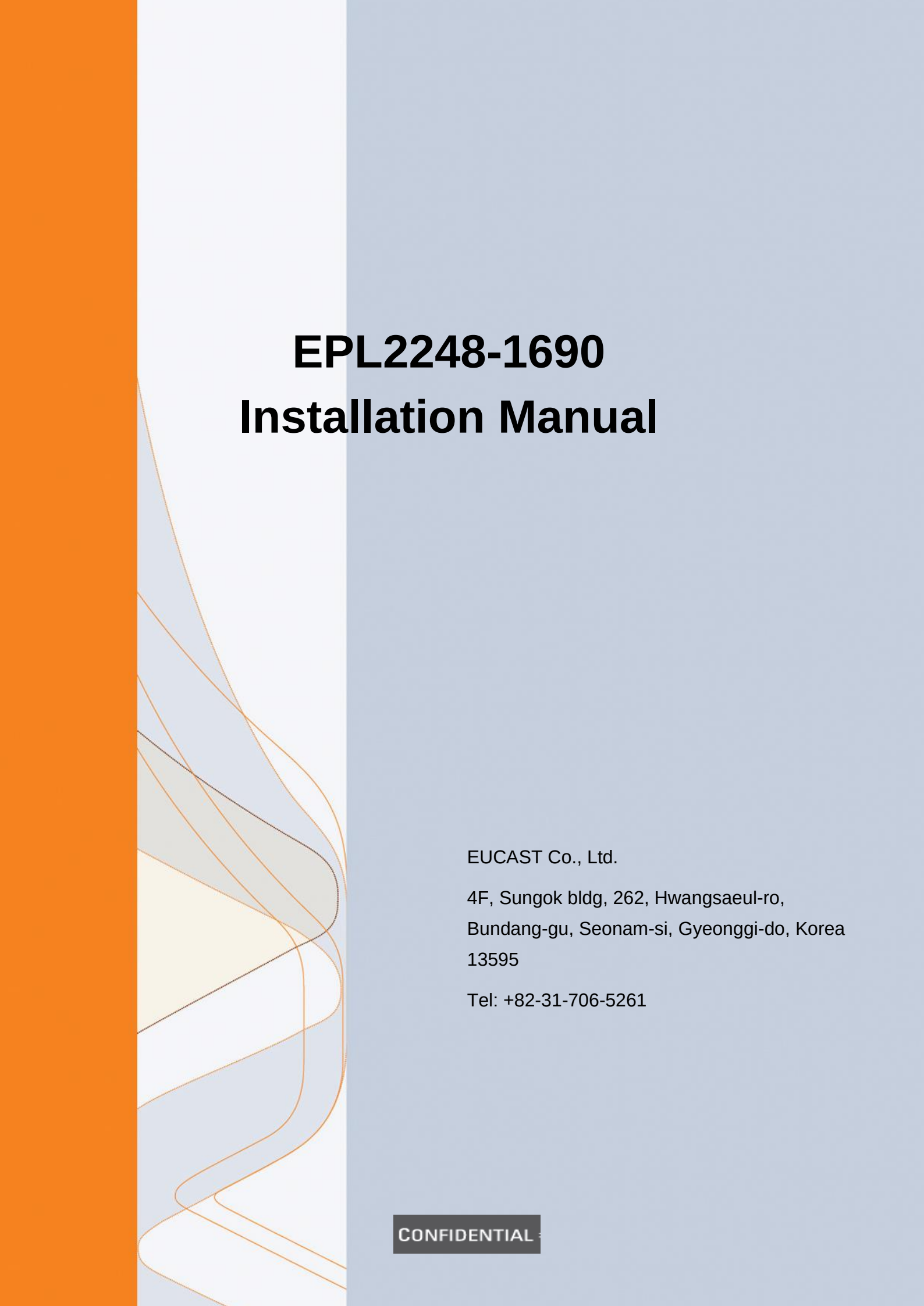




EPL2248-1690

Installation Manual

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Revision History

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1.0	2022.06.30	HW	Initial draft version

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Preface

Purpose of the Manual

This document provides basic installation guide for EPL2248-1690 system, the LTE base station system.

Amendments

The installation manual is being updated continuously. There may be some minor differences due to the continued upgrades and modifications to the system. Please contact us to clarify any confusion arising from such differences.

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Caution and Other Marks



This Equipment complies with part 15.19 (a)(3) 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.



The intentional or unintentional radiator of this equipment shall not be changed or modified without the approval of EUCAST.



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

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and

used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



This equipment complies with FCC RF Radiation exposure limits set forth in an uncontrolled environment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed to operate with a minimum distance of 40 cm between the radiator and the end-user's body.



Changes or modifications not expressly approved by EUCAST could void the user's authority to operate the equipment.

1 Introduction

EPL2000 is a portable NIB (Network in a Box) System.

As the EPC module is configured inside, so base station can do self-network organization.

EPL2000 is not a base station that can be used during moving.

It is a base station system used after being moved to a fixed position.

1.1 System Specification

1.1.1 EPL2248-1690 System Outline

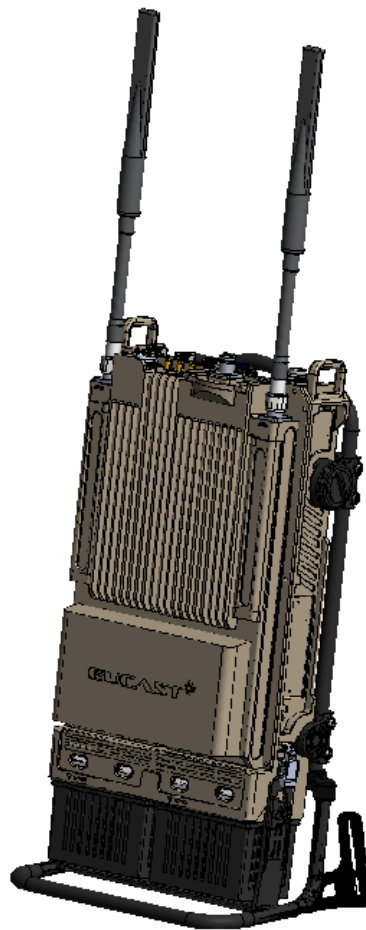


Figure 1. EPL2248-1690 Outline

1.1.2 Power Consumption.

The EPL2248-1690 backpack base station uses a battery as main power source.

Battery power is +12VDC.

The +12VDC voltage is converted to other DC voltages in the EPL2248-1690 and distributed to the modules.

It can also use an external power source without a battery. the external power is +24VDC.

ITEM	Specification
Battery Power	+12 VDC x 2ea
Maximum Power Consumption(typ.)	avg. 85 Watts, peak 100 Watts

Table 1. Power Consumption

1.1.3 Size and Weight

ITEM	Specification
Size (mm)	260mm x438mm x122mm (Main Body)
Weight (Kg)	Typ. 11 kg

Table 2. Size and Weight

1.1.4 Environmental condition

Section	Range	Standard
Operating Temperature	-30 ~ 50°C	
Storage Temperature	-30 ~ 70°C	
Humidity	10% to 95%	

Table 3. Environmental Requirements

1.1.5 Physical Interface

1.1.5.1 Interface Overview

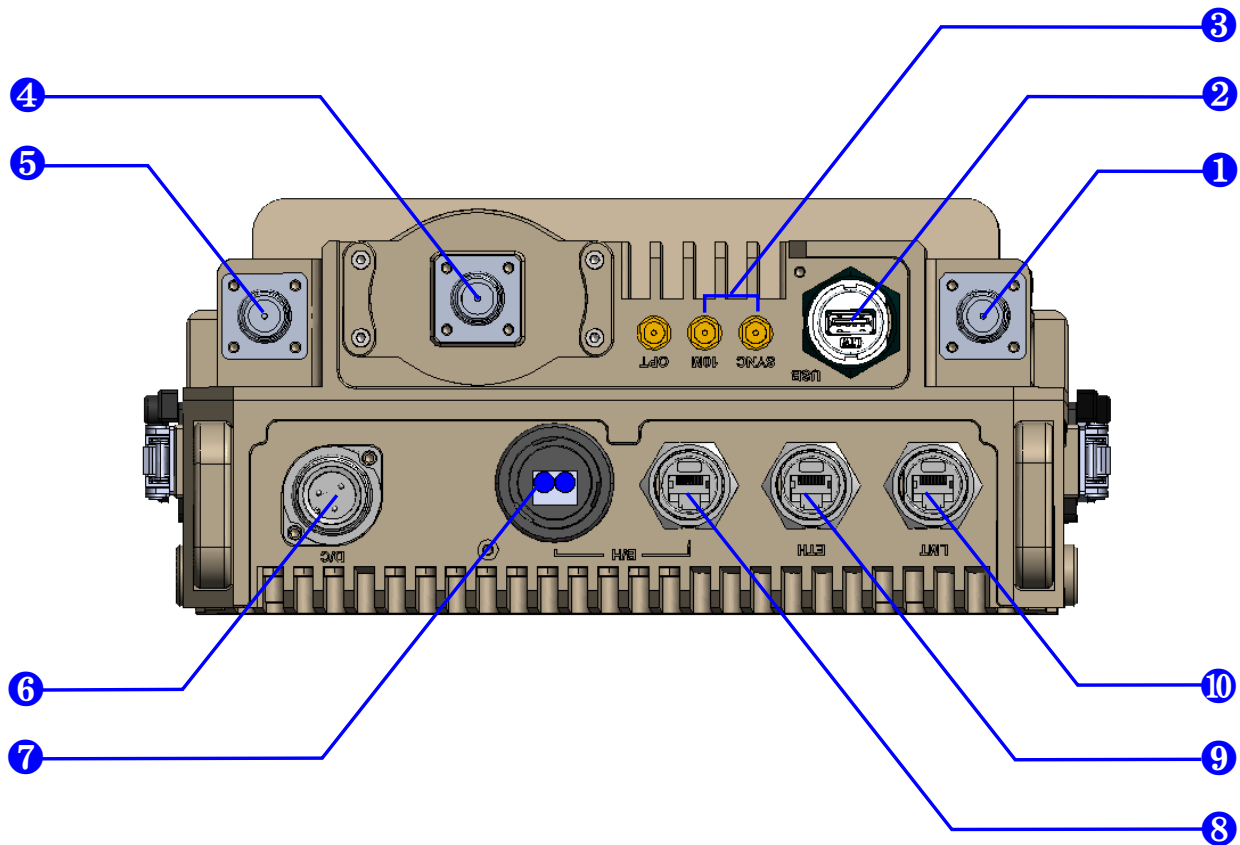


Figure 2. Interface Ports

- ① ANT1 : RF antenna connection port.
- ② USB : Storage port
- ③ 10MHz/SYNC : Test sync port
- ④ GPS : GPS antenna connection port
- ⑤ ANT2 : RF antenna connection port.
- ⑥ BH_OPTIC : Backhaul port (Optic, 1000base-X)
- ⑦ BH_RJ45 : Backhaul port (RJ45, 1000base-T)
- ⑧ ETH : EPC connection port
- ⑨ LMT: Local management tool, debug and monitoring port (100base-T)

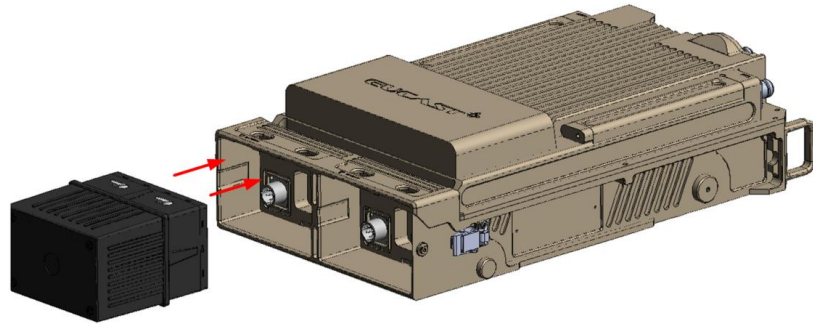


Figure 3. Battery Interface



Figure 4. Power Switch and Status LED interface

1.1.5.2 Detailed Definition of Interface

No	Name	Connector Type	To/From	Descriptions
1	ANT1/ANT2	N-type Female	RF Antenna	RF Output Port, Main/Diversity
2	USB	UA-20PMFP-LC7001	-	Data Back-up
3	10MHz/SYNC	SMA Female	-	Test Sync Port
4	GPS	N-type Female	-	GPS Antenna Connection Port
5	Backhaul OPTIC	FB-00RLFJ-TC7001	Backhaul	Optic Backhaul Port
6	Backhaul RJ45	RCP-5SPFFH-SCU7001	Backhaul	RJ45 Backhaul Port
7	ETH	RCP-5SPFFH-SCU7001	-	EPC Connection Port
9	LMT	RCP-5SPFFH-SCU7001	-	Local Management Tool Port, RJ45

Table 4. Interface overview

2 System components

2.1 EPL2248-1690 components

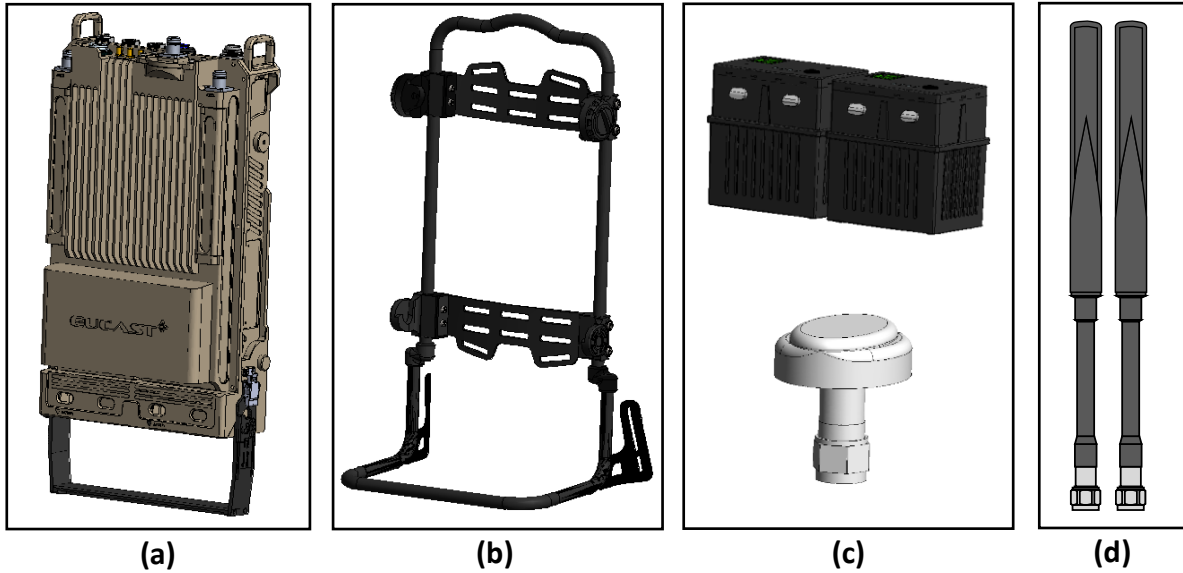


Figure 5. Compositions of EPL2248-1690

- a) EPL2248-1690 Main Body
- b) Bracket
- c) Battery and GPS antenna
- d) Gooseneck RF antenna

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