

KCU-31

Ethernet Remote Communication Module Hardware Installation Manual



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SECTION 1 : INTRODUCTION

KCU-31 Ethernet Remote Communication Module is designed for use with specifically KUTAI ATS and Generator Controllers (Ex.BTB Type ATS, GCU-4K...etc). Download the free app for PC, tablet, or smartphone to monitor, control, and configure the controllers remotely.

Controllers' system parameters can be setup directly in KCU-40 software (Refer to KCU Communication Software Installation Manual) for easy configuration.

User can send all system parameters through Kutai GenOnCall® Remote APP which is exclusively developed for remote operation. No need to perform functional operations through the buttons on the control panel, saving time and efficiency.

FEATURES

- Plug and Play Internet connection, more convenience in use
- Support Dynamic IP Connection
- All transmitted data use two sets of keys for encrypt/decrypt. (Primary Key and Session Key)
- Owner Password for remote control and monitor. (1 user)
- Viewer Password for remote monitoring only. (Up to 7 user)
- Support 10/100Base-T standard.
- Automatically download and renew firmware program code for KCU-31
- Automatically download the new firmware program code of the control unit (Manual update: the user must enter [system setting / update the program version or not] on the control panel to decide whether to update or not)
- Communication status Indication LED

SECTION 2 : SPECIFICATION

Power Input

5 Vdc

Power Consumption

< 1.0 watts

Dimensions

65.0 (L) x 23.0 (W) x 35.0 (H) mm

Environment

Operation Temperature -20 to +70 °C

Storage Temperature -35 to +85 °C

Relative Humidity Max. 95%

Vibration 3 Gs @ 100 – 2 K Hz

Weight

31 g +/- 2%

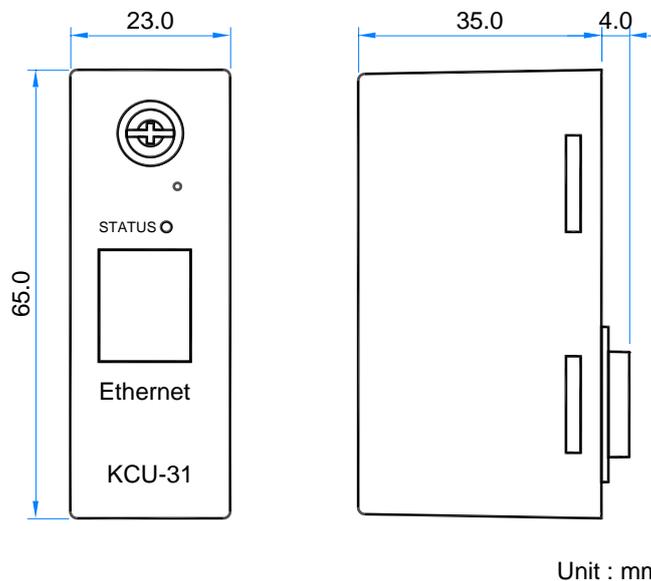


Figure 1 Outline Drawing

ATTENTION!!

- ※ KCU-31 is designed for Dynamic IP connection, no need for complicated network protocol settings.
- ※ KCU-31 will automatically connect the Server Control Protocol Bridge.
- ※ GenOnCall® -Remote APP Download : <http://www.kutai.com.tw/tw/automatic-transfer-switch/btb-type-ats.html>

SECTION 3 : INSTALLATION

Disconnect control unit power supply before installation and follow below steps to install KCU-31 on expansion slot or Interface Module (KCU-IF)

3.1 BTB-ATS Installation Instructions

Step 1 : See Figure 2 for an example

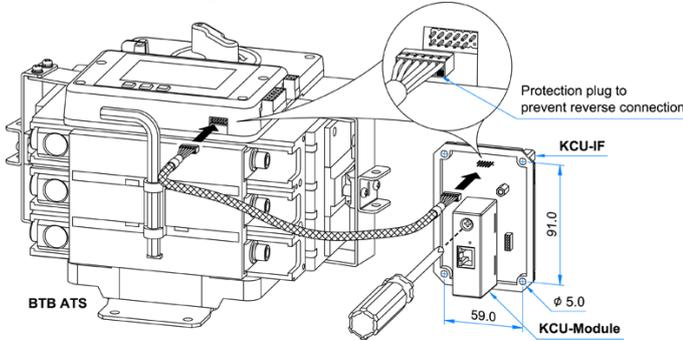


Figure 2 Installation for KCU-31

Step 2 : Tighten the KCU-31 attachment screw.

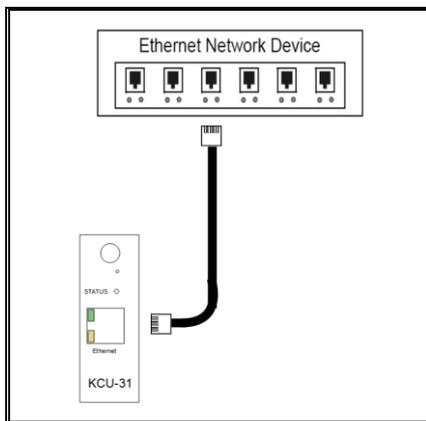
Step 3 : Connect power input to control unit and switch to OFF mode and enter system setting to entry [33 - Remote control by KCU-XX module] and select Enable.

Refer to instruction manual of each control unit for more detail.

ATTENTION!!

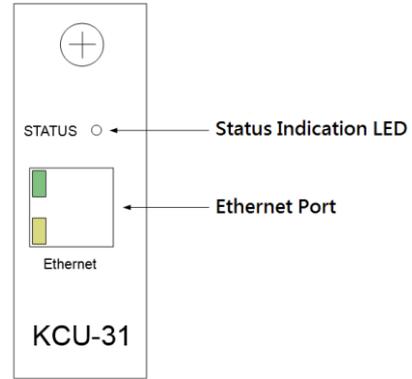
1. If “Remote control by KCU-XX module” is disabled. The software can monitor the unit only but incapable to control it remotely.
2. KUTAI reserves the right to update or modify software without notification. Check the KUTAI website for the most recent software updates.

3.2 Ethernet Connectivity



Ethernet Network Device is a hub (HUB) or an IP sharer (IP Switch) or a router (IP Router) that connects the server to the network. The network administrator must enable the DHCP (Dynamic Host Configuration Protocol) function, so that the KCU-31 can automatically obtain a valid IP connection provided by the DHCP server and automatically connect to the KUTAI network communication server.

SECTION 4 : STATUS AND NETWORK CONNECTION INDICATOR



KCU-31 Status Indication LED :

STATUS	MEANING
● Flash	Communicating with control unit
● Flash	Network communication status : Requesting IP from DHCP server or communicating with KUTAI server
● Flash	The above two states are in action at the same time
● Flash ● ON	The KCU-31 is communicating with the control unit and trying to connect to the KUTAI server

KCU-31 Ethernet Port Indicator :

STATUS	MEANING
■	Solid green : Ethernet connected
■	Blinking yellow : Data transmitting

KCU-31 Trouble Shooting :

SYMPTOM	SOLUTIONS
Indication LED is off	<ol style="list-style-type: none"> (1) Check if control unit is operating properly. (2) If control unit is working properly, remove KCU-31 and re-insert it on expansion slot or Interface Module (3) If you cannot solve the problem, replace KCU-31 or contact authorized dealer.