

INTERRA
—Developer of Uniqueness—

**Samsung NASA
AC / KNX Gateway
ITR830-05XX**



SAMSUNG

INTERRA – Developer of Uniqueness

In recent years, with the huge growth rates, Interra has been managed to be one of the most popular KNX based home automation brands globally. In 2020, Interra started its first attempt of integrating air conditioning units into the KNX systems and creating bi-directional communication between them to increase the energy efficiency and capabilities of smart buildings. With the support of The Scientific and Technological Research Council of Turkey and the collaboration with air conditioning manufacturers to ensure to keep the right compatibility with their AC units, Interra succeeded to create reliable KNX gateway units for major international brands.

Unique HVAC Solutions for KNX Professionals

Bi-directional Communication

Interra KNX / AC Gateways provide complete bi-directional integration of air conditioners with KNX bus. Get or send any information from the AC unit to control and monitor it on your KNX bus.



Approved Reliability

Interra AC Gateways are developed with the collaboration of air conditioning manufacturers to ensure to keep the right compatibility with their AC units. Interra has special agreements with some air conditioning manufacturers where they are the exclusive distributors of Interra AC / KNX Gateways in their regions. Trusted By KNX Professionals

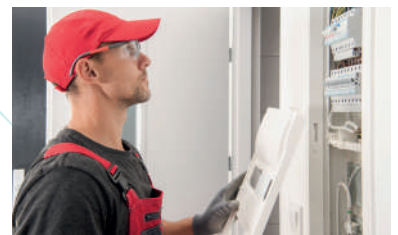
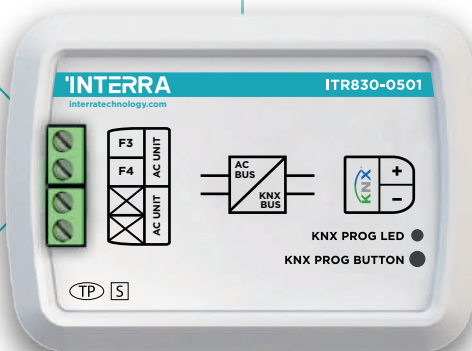
Easy to Setup

With its minimalistic design, very easy to implement, hide and connect AC to the KNX bus.



Energy Efficient

HVAC systems are the biggest part of the energy costs in buildings. Interra AC Gateway units provide smart scenarios and special modes for your needs to keep your energy usage at optimal levels.



Trusted by KNX Professionals

Interra is one of the most popular KNX brands in the world and trusted by more than 430 KNX integrators only in 2021.

More features by KNX

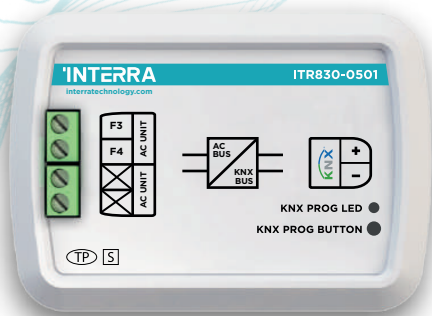
- Mobile Control
- Personalized / Timer Scenarios
- Energy Consumption & Savings
- Energy Monitoring
- Air Quality Monitoring*



Samsung NASA AC / KNX Gateway

ITR830-05XX

ITR830-0005 is an air conditioner gateway used for monitoring and controlling all the functioning parameters of Samsung NASA air conditioners via the KNX bus line.






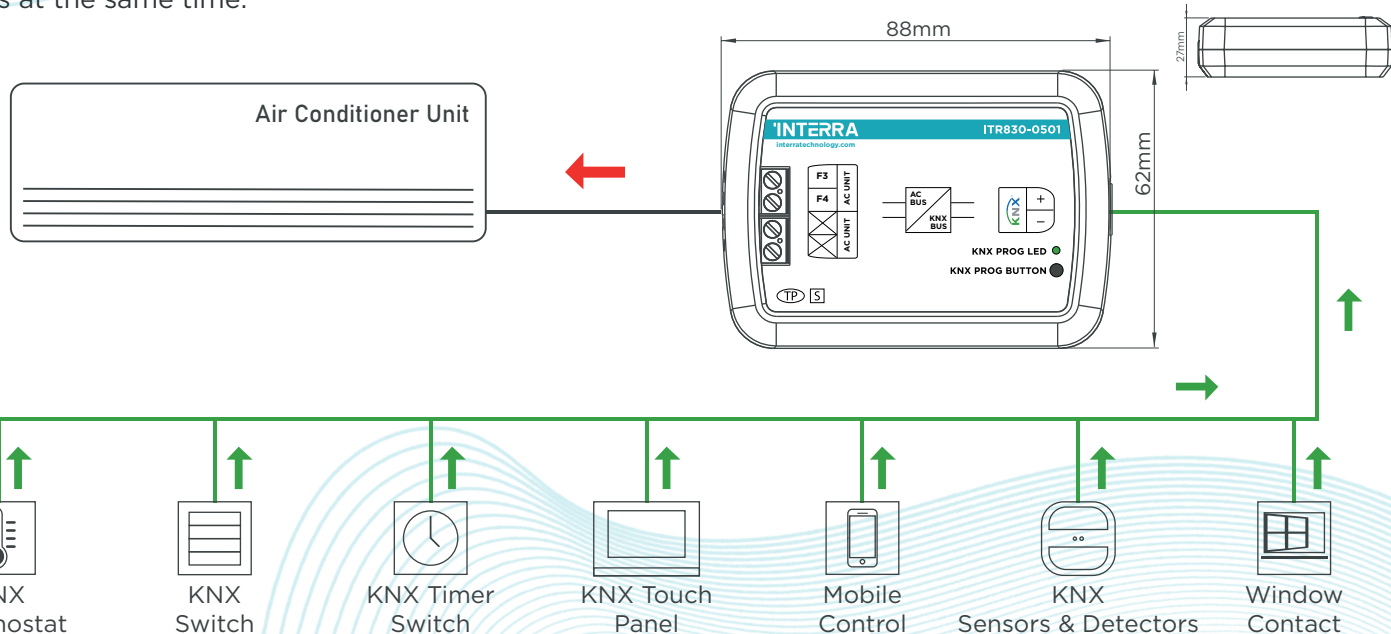
FUNCTIONS

- ITR830-05XX can control Samsung air conditioners synchronously with multicast functionality or independent of each other.
- It includes 4 logical advanced parameters, each logical parameter has up to 4 inputs and can be configured as AND, OR & XOR.
- It includes 8 advanced converter parameters and each converter has four operations math calculations according to the input type.
- Logic and converter parameters can be used for energy savings, configurable scenes, temperature limits, etc.
- The Samsung NASA AC - KNX gateway provides error notifications for errors that may occur in exceptional cases.

OVERVIEW

Samsung NASA AC - KNX Gateway has an easy installation feature and can be installed inside the own AC indoor unit or a proper location away from the air conditioner. It connects one side directly to the electronic circuit of the AC indoor unit and on the other side directly to the KNX bus. In addition, according to the model number, Samsung NASA Gateways can control 1, 1-4, 4-8, 8-16, or 16-32 air conditioners at the same time.

Technical Specifications	
Product Code	ITR830-05XX
Power Supply	KNX Power Supply
Power Consumption	10 mA
Push Buttons	1 x KNX Programming Button
LED Indicators	1 x KNX Programming LED
Type of Protection	IP 20
Cable Distance	Max 300 m
Mode of Commissioning	S-Mode
Maximum Air Humidity	< 90 RH
Temperature Range	Operation (-10°C...70 °C) Storage (-25°C ... 100°C)
Colour	Light Grey
Dimensions	88 x 62 x 27 mm (W x H x D)
Certification	KNX Certified
Configuration	Configuration with ETS
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Note: The air conditioner must remain off while at mode transitions between heating and cooling.

For more information visit interratechnology.com

Samsung NASA AC / KNX Gateway

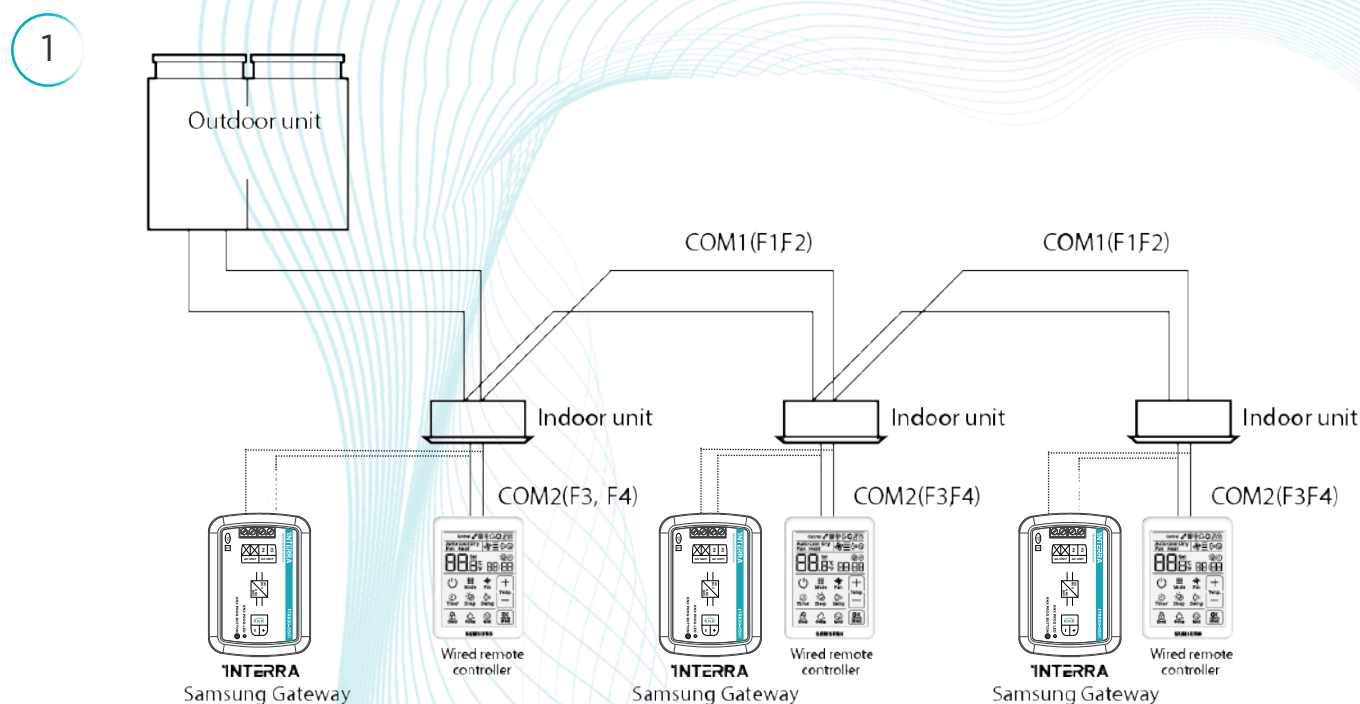
PRODUCT RANGE

- ITR830-0501 - Samsung AC - KNX Gateway 1 Channel - Indoor Unit Type
- ITR830-0504 - Samsung AC - KNX Gateway 1-4 Channel - Indoor Unit Type
- ITR830-0508 - Samsung AC - KNX Gateway 4-8 Channel - Indoor Unit Type
- ITR830-0516 - Samsung AC - KNX Gateway 8-16 Channel - Indoor Unit Type
- ITR830-0532 - Samsung AC - KNX Gateway 16-32 Channel - Indoor Unit Type

CONNECTION DIAGRAM

3 different type connection can be made with Interra Samsung NASA AC / KNX Gateway

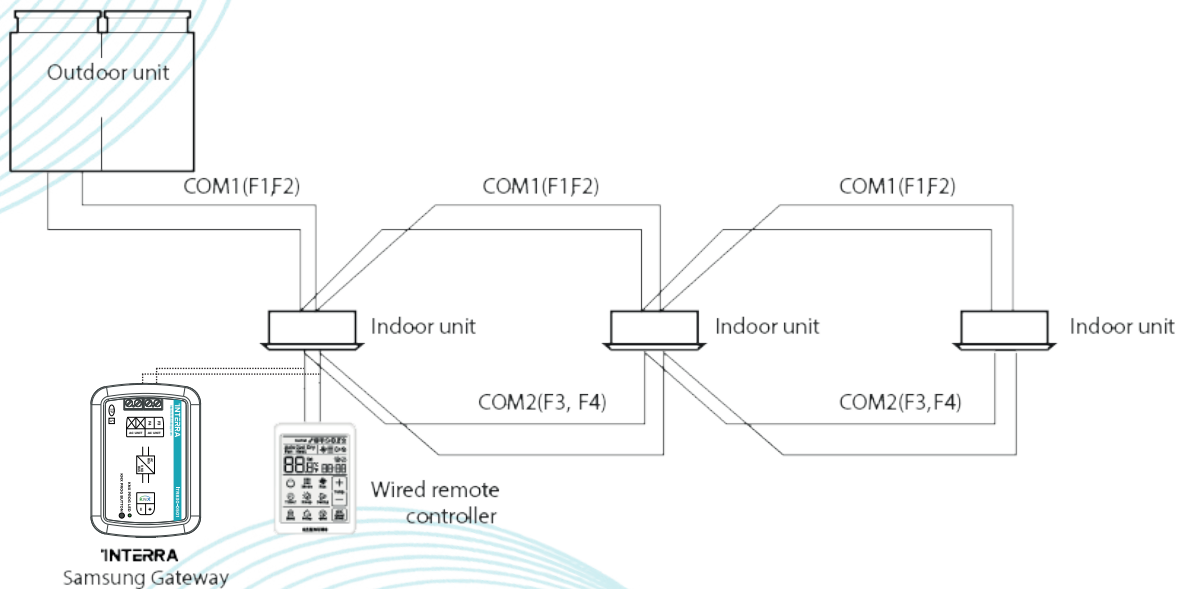
The connection chain of air conditioners to be connected to A port and B port should not conflict. Each port must be isolated from the other.



Samsung NASA AC / KNX Gateway

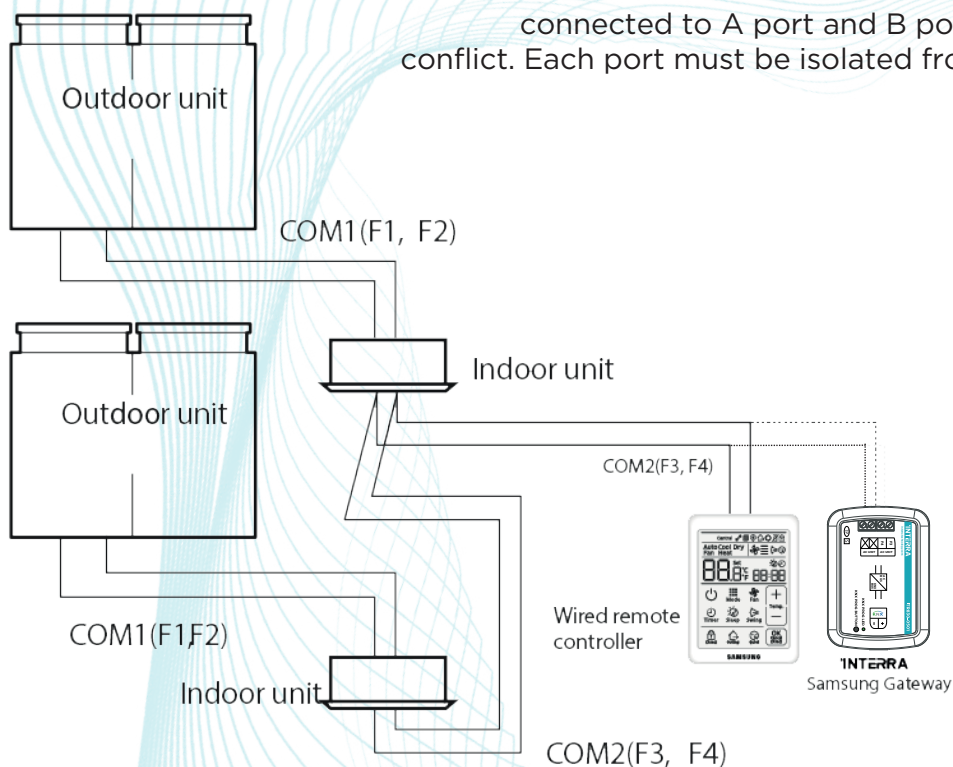
2

The connection chain of air conditioners to be connected to A port and B port should not conflict. Each port must be isolated from the other.



3

The connection chain of air conditioners to be connected to A port and B port should not conflict. Each port must be isolated from the other.



INTERRA

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Easiest way to monitor and control
the air conditioning systems.

Interra KNX / AC Gateways provided
complete and reliable integration in
thousands of KNX projects globally.

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Ataköy Sea Pearl - Istanbul



Yedi Mavi Residence - Istanbul



The Harrington Collection - Australia



Vadi Istanbul Mall & Office & Residence



Acarkent Villas - Istanbul



Merkez Ankara



Mesa Orman - Istanbul



Hilton Dalaman Lake Houses - Muğla



Nevbahar Üsküdar - Istanbul



Denli Lujo Villas - Tekirdağ



Çengelköy Park - Istanbul



Invictus Sunset Ilica - Izmir



Nidapark İstinye - Istanbul



Avrupa Konutları Çamlı Vadi - Istanbul



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