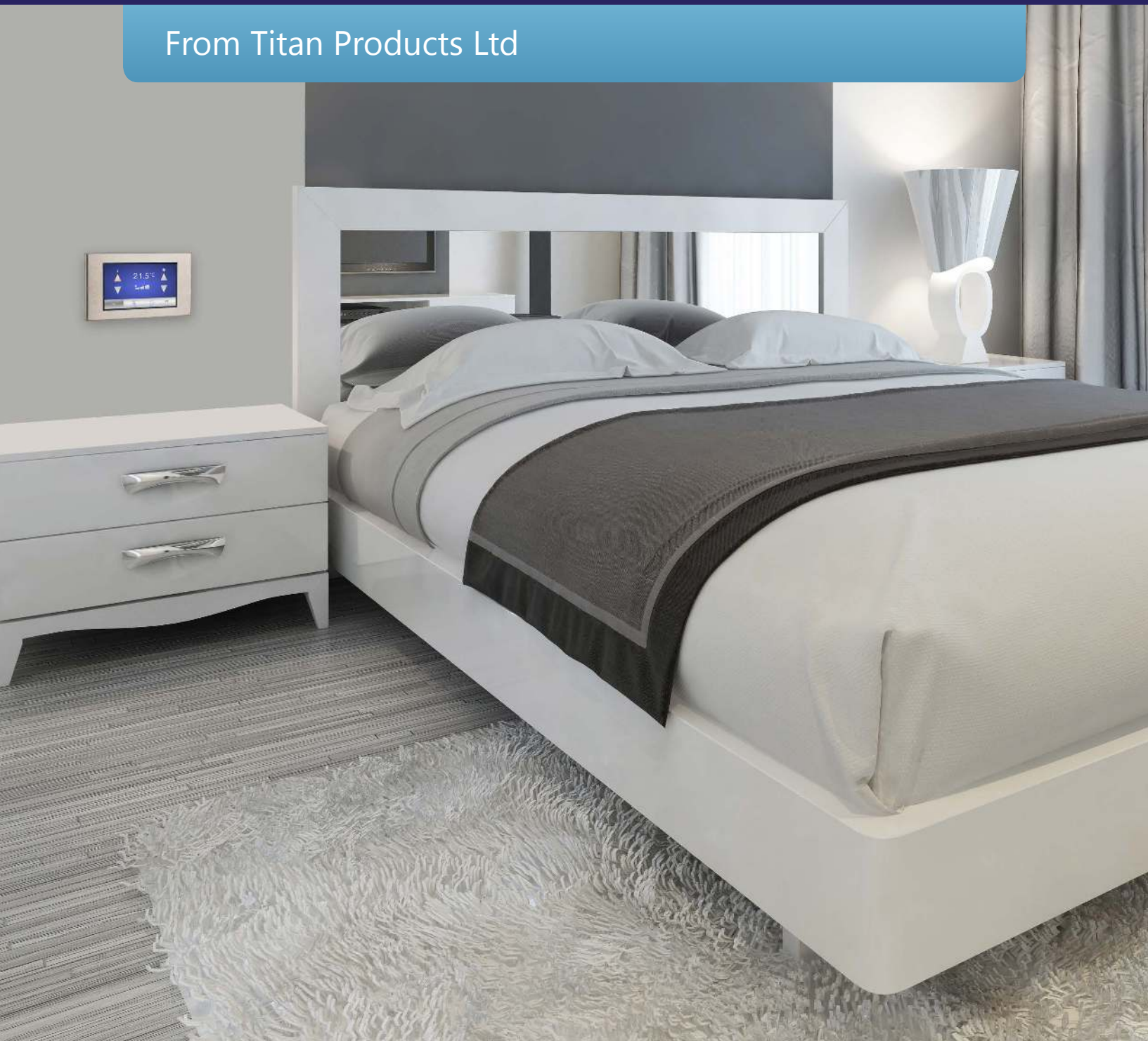


# Advanced Hotel Comfort Control

From Titan Products Ltd



The Hotel Solution from Titan Products combines networked energy efficient control with high quality user interfaces for both inside and outside of the hotel guest room.



## Stylish User Interface

---

The RDU-Touch is the user interface of the system. Offering high quality material finishes along with an attractive and easy to use touch screen interface. The RDU-Touch provides the hotel guest with the ability to effortlessly adjust their comfort set point and desired fan speed via the intuitive touch screen controls.

The RDU-Touch also incorporates the ability to offer housekeeping requests such as *Make Up Room* (MUR) and *Do Not Disturb* (DND) which integrate seamlessly on to the building management system.

Available in a wide range of luxurious finishes to suit hotel requirements, Titan Products can match the surround to any RAL colour to ensure the RDU-Touch matches the hotel colour scheme. There is also the option to add hotel branding.

### RDU-Touch Features

- Fully capacitive touch screen
- Temperature and fan speed adjust
- Quick MUR or DND selection
- Plug and play connection for quick and simple installation
- Inbuilt temperature sensor
- Adjustment of second zone underfloor heating (if configured)
- Branding options available
- Range of finishes available to suit hotel requirements
- RAL matching on surrounds available



## The DND-Touch Corridor Plate

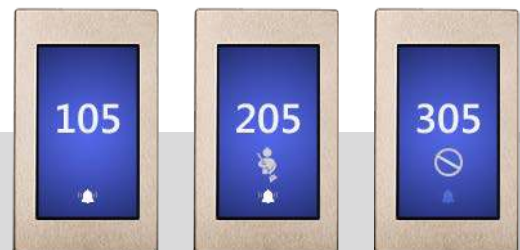
Highlighting the guest's room demands are instantaneous via the Make Up Room and Do Not Disturb features built into the Hotel Guest Room Solution. Selecting MUR or DND on the RDU-Touch within the room flags the chosen request on the DND-Touch which is mounted within the hotel corridor. These conditions can also be flagged over the BMS, via BACnet communications, for instant visibility of the guest's requests.

The DND-Touch can be programmed to include the room number, which is also adjustable via BACnet, along with any hotel branding and an integrated door buzzer. The door buzzer is automatically disabled when DND is selected by the guest on the RDU-Touch.

### DND-Touch Features

- MUR and DND indicator
- Room number indication
- Integrated door buzzer
- Plug and play connection for quick and simple installation
- Branding options available
- Range of finishes available to suit project requirements including RAL matching on surrounds

DND-Touch



## Energy Efficient Control

The FCU-503 range of energy efficient controllers effortlessly provide accurate heating, cooling and fan control for fan coil applications. The FCU-503 also incorporates advanced underfloor heating options which include a second zone of independent control, perfect for bathrooms within the guest room. Both rooms are controlled seamlessly from the attractive RDU-Touch user interface.

Native BACnet communications within the FCU-503 allow for seamless integration onto the hotel building management system (BMS). This allows the controllers to be fully synchronised with the Hotel Letting System creating dynamic ECO control of pre-set comfort conditions depending on the let state of the Hotel Guest Room, greatly reducing energy costs for the hotel.

### FCU-503 Features

- BACnet MS/TP communications
- Fully integrated heating and cooling control
- Flexible 0-10V or 24VAC heating and cooling control options
- Flexible 0-10V or relay fan control options
- Multi-level ECO settings
- Backup & Restore compatible
- Inbuilt underfloor heating control options
- Valve flush regimes as standard
- Fabric protection options
- Master / Slave functionality via BACnet
- Bespoke options for individual projects



FCU-503

## Dynamic Occupancy

The FCU controllers for Hotel Applications can be enabled to operate to Normal Operation via a number of different methods to suit the hotel requirements. These include traditional card reader inputs but also extend to more energy efficient solutions to prevent guests from leaving the control operational when the guest room is unoccupied resulting in wasted energy use.

Titan Products have developed specific control loops utilising up to 2 x occupancy sensor inputs working in unison with a door contact switch that determine whether the room is occupied or unoccupied and dynamically switches between occupied and unoccupied control modes to maximise energy efficiency for the hotel.

2<sup>nd</sup>

### Second Zone of Heating Control

For guest rooms that offer underfloor heating within the bathroom for under foot comfort, the FCU-503 controller offers a second completely independent control loop to control the bathroom floor temperature. The bathroom temperature can be set from the RDU-Touch allowing complete control of the whole guest room from one location.



### IP and Audio Visual (A/V) integration

Via the Titan NetMaster TP-NM/R-1000 BACNet router all BACnet objects within the FCU-503 controllers can easily be mapped onto an IP network for integration on to a hotel guest room's audio/visual or third party system. These same communications can also be used to integrate on to a BMS or letting system which requires IP communications rather than native BACnet MS/TP.



### Lighting Enable

The FCU-503 controller offers a number of digital and relay outputs that can be used to enable the lighting and power outlets within the guest room during an occupied state. This prevents lighting or appliances being left on and wasting energy when the guest room is unoccupied.



### Energy Efficient

The FCU-503 also controls the energy efficient ECO modes of the hotel guest room. ECO modes can be employed allowing the hotel guest room to operate at different ECO settings depending on the let state of the hotel guest room. This enables the space to be quickly heated or cooled to a comfort level from the moment the guest has checked in to the hotel. ECO modes prevent having to bring the room to temperature from a completely cold or hot unoccupied state, which consumes unnecessary energy. They also prevent over-conditioning of an unoccupied room.

## Multi-drop

Each FCU-503 controller can be connected to up 4x user interfaces via the RDU-Hub. This allows multiple RDU-Touch units and a DND-Touch corridor plate to be fully synchronised, offering the guest multiple points within their guest room or suite to adjust their comfort settings. This is perfect when requiring an interface by the guest room entrance but also by the bed head. Multi-drop also allows any MUR and DND requests selected on the RDU-Touch to be displayed on the DND-Touch corridor plate.

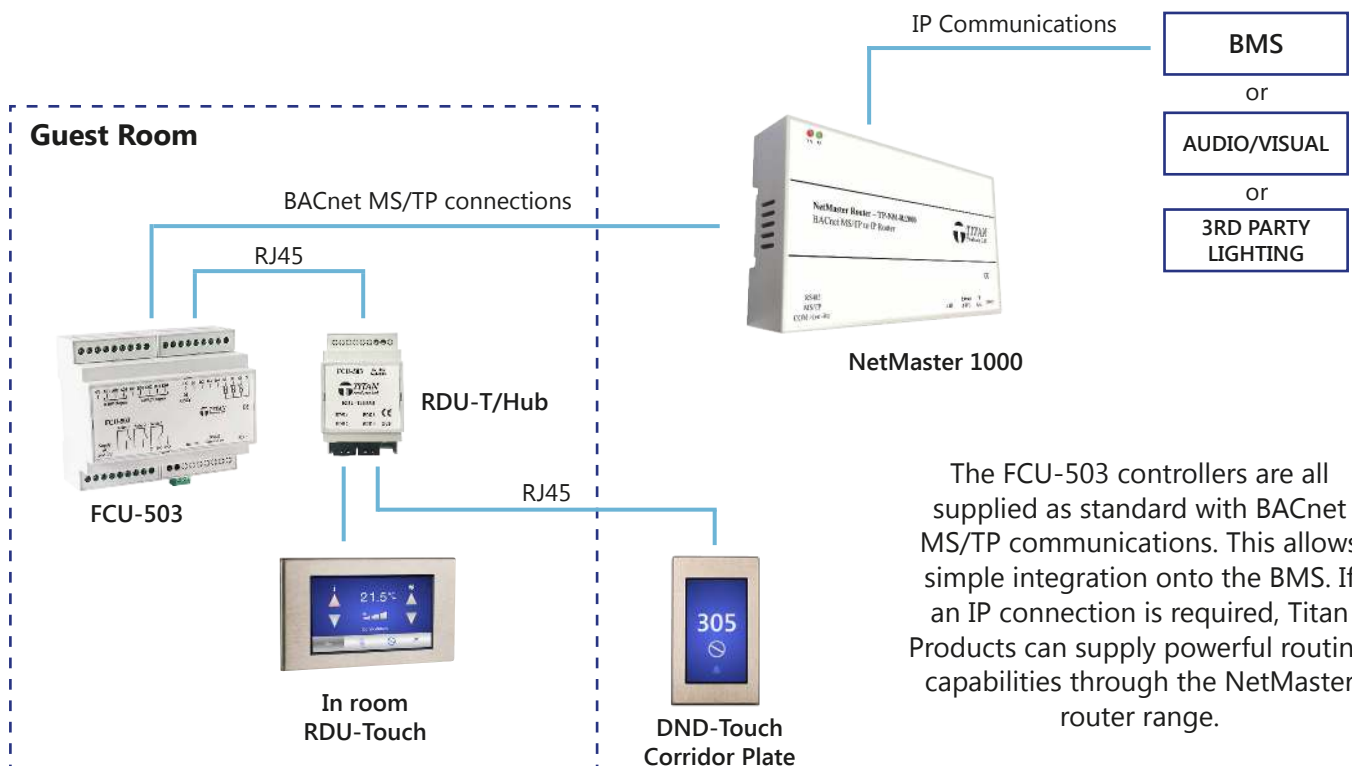
### Multi-Drop Features

- All connected RDU-Touch/DND-Touch fully synchronised
- Plug and play setup via RJ45 connections
- No complicated wiring or programming for setup
- Reduced install costs



RDU-Hub

## The Setup



The FCU-503 controllers are all supplied as standard with BACnet MS/TP communications. This allows simple integration onto the BMS. If an IP connection is required, Titan Products can supply powerful routing capabilities through the NetMaster router range.

**Titan Products Ltd.** 15 Latham Close, Bredbury Park Ind. Estate,  
Stockport, Cheshire SK6 2SD

**Tel:** +44 (0) 161 406 6480      **Email:** [sales@titanproducts.com](mailto:sales@titanproducts.com)

 Follow Titan Products on Twitter [@titanproducts](https://twitter.com/titanproducts)