

The Arch NX WiFi-enabled desk-height controller is equipped with proprietary firmware from Nura Space, offering a seamless integration with Nura Space's Workplace Management Software cloud-based system. Providing a comprehensive solution for remote control and management in large scale desking environments, the integrated desk controller allows users to adapt each desk configuration in real-time via the Nura Space platform, without the need for physical interaction. From a management perspective, the WiFi-enabled controller offers organisations unique capabilities to actively monitor the operating conditions of the desks, as well as control the settings of multiple desks in one go.

The Arch NX WiFi-enabled desk-height controller offers enterprise security that covers the entire product life cycle, starting from production to end-of-life disposal.



## Operational Features

Together with the Nura Space Workplace Management Software, the WiFi-enabled desk-height controller offers features targeting both end users and system administrators.

Besides the below features, the Arch NX WiFi-enabled desk-height controller also synchronises height preferences across acquired desks and the Nura Space cloud system, preventing data from being lost. The desk will also be pre-configured prior to the users arrival.

## Employee / End User

Operational Features	Physical Interaction	Web / Mobile Application
Reserve a desk	NA	✓
Set height preferences	✓ Acquired desk only Limited to 3 preferences	✓ Any desk Unlimited preferences
Reposition desk to height preference	✓ Acquired desk only Limited to 3 preferences	✓ Acquired desk only
Reposition desk to a particular height	NA	✓ Acquired desk only
Move desk UP / DOWN	✓ Any desk	✓ Acquired desk only

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## System Administrator Features

Operational Features	Physical Interaction	Web Application*
Reposition desks to a particular height	NA	✓
Configure desk settings	NA	✓
Monitor desk operating conditions <sup>1</sup>	NA	✓
Turn ON/OFF RF module <sup>2</sup>	✓ Single-chosen desk With privileged access only	✓
Add/remove/modify RF related credentials <sup>3</sup>	NA	✓
OTA update	NA	✓
Factory reset devices	NA	✓
Decommission devices	NA	✓

Notes:

\* Multi-chosen desk

(1) The desk operating conditions currently offered are but not limited to: *Desk height, maximum/minimum desk height, desk location, anti-collision sensitivity, power consumption, connected SSID, connected AP MAC, device MAC, wireless RSSI, HASH values for sensitivity information*

(2) The RF module might include WiFi only module, or WiFi/BLE integrated module

(3) One-way communication only, a failed operation will result in the devices having to be decommissioned and re-deployed

## Security-based approach in device life cycle management

The Arch NX controller adopts a security-based approach throughout the entire device life cycle, starting from the development phase to end-of-life disposal. Clients are also provided with options to determine when and where the data should be stored, ensuring high flexibilities without compromising the security of the system.

### Development

The firmware/software development is developed in house in Australia with authorised equipment.

### Production

A digital signed and encrypted firmware without Nura Space integration is given to the manufacturer in China. At this stage, the device does not hold any client's information, ensuring high security level is provided.

### Deployment

Completed by Authorised Schiavello or Nura Space personnel, the integrated part of the firmware is added onto the device prior to or onsite. At this stage, the client can also choose to include wireless configuration and other information either on our secured factory or on client's site.

### Maintenance

The devices continue to report their operating condition in real time. Unqualified devices are reported and fall through the DECOMMISSION phase. New devices are onboarded using the above process.

### Decomissions

The devices are factory reset and all data on the device is permanently deleted. The devices can be re-deployed if the error leading to the decommission relates to software/firmware only. Otherwise, the devices are destroyed in the DISPOSAL phase.

### Disposal

The devices are physically destroyed.

## Hardware Characteristics

Operating voltage	5V ± 10%	
Power consumption	Typ. 0.1W	
Operating Temperature	Typ. -30°C–55°C	
Display	3-digits LED screen	
Memory position	3	
Dimension	64 x 130 x 31 mm	
Connector	RJ45	
Flash Security	<ul style="list-style-type: none"> <li>Firmware digital signature:                             <ul style="list-style-type: none"> <li>_ RSA-PSS</li> </ul> </li> <li>Flash encryption:                             <ul style="list-style-type: none"> <li>_ XTS-AES 256 bits</li> </ul> </li> </ul>	
WiFi	<ul style="list-style-type: none"> <li>Physical protocol: IEEE 802.11 b/g/n-compliant</li> <li>Carrier frequency: 2.4GHz</li> <li>Bandwidth:                             <ul style="list-style-type: none"> <li>_ 20MHz</li> <li>_ 40MHz</li> </ul> </li> <li>Authentication method:                             <ul style="list-style-type: none"> <li>_ WPA2-PSK/WPA2-Enterprise</li> <li>_ WPA3-PSK/WPA3-Enterprise</li> </ul> </li> </ul>	
Bluetooth	Bluetooth 5.0 low energy	
Motor driver comparability	NB02 (Phoenix Mecano)	
Certificates	<ul style="list-style-type: none"> <li>ESD protection                             <ul style="list-style-type: none"> <li>_ ± 15kV contact discharge</li> <li>_ ± 21kV air discharge</li> </ul> </li> <li>Vibration protection</li> <li>ACMA, RSM, SIRIM, ANATEL, NCC, KCC, TELEC, FCC, CE, CE, SRRC, WiFi certifications</li> </ul>	