SMART WORKPLACE TECHNOLOGY
DATA SHEET

CMS ENGAGE

Smart Workplace Technology

As the modern workplace continues to evolve, the challenge today is to ensure it is working more efficiently and effectively. Understanding how the workplace is being used, with consideration of power consumption and its impact on our environment are just some of the challenges enterprise face today. Just as important, employees require the tools to book and reserve space remotely or when in the office to remain engaged and productive.

CMS Engage is a smart workplace technology solution, digitalising the seamless interactions between employees and the workplace, while property and facility managers monitor space utilisation and energy consumption to provide insightful analytics on how their workplace is being utilised.

Colours Available

● Black   ○ White

SM001	Smart Power Cell
SM002	Smart Occupancy Sensor
SM004	Smart Hub Gateway
SM005	RGB Status Indicator
SM006	Athena Power Rails With RGB Status Indicator - Complete Rail
ETWUIRT15**	Echo Trio, 1x Wireless Fast-Charging Module (15W), 1x USB A/C Charging (30W Shared), Engage Status Indicator with RFID/NFC, 1500mm TAG Lead
EQA1UWRT10D**	Echo Engage, 1x GPO, 1x USB A/C Charging (30W Shared), 1x Wireless Fast-Charge Module (15W), Engage Status Indicator with RFID & NFC, 1000mm TAG Lead
EQA1UWT10D*	Echo Engage 1x GPO, 1x USB A/C Charging (30W Shared), 1x Wireless Fast-Charge Module (15W), Engage Status Indicator, 1000mm TAG Lead
NDSVR**	Nova Duo 1x 100W USB A/C Fast Charging (Includes 100W Module), Engage Status Indicator with RFID/NFC
NTSRWAT10D**	Nova Trio 1x GPO, 1x USB A/C Fast Charging (65W Shared), Engage Status Indicator w/ RFID/NFC, 1000mm TAG Lead
VDSVR**	Viva Duo 1x 100W USB A/C Fast Charging (Includes 100W Module), Engage Status Indicator with RFID/NFC
VTSRWAT10D**	Viva Trio 1x GPO, 1x USB A/C Fast Charging (65W Shared), Engage Status Indicator w/ RFID/NFC, 1000mm TAG Lead

Features

Above the Desk

1. Status indicator

» Shows status of the work station above the desk via illuminated tile or integrated indicator

» Integrates into CMS Athena, Nova & Viva power rails and Echo in-desk power modules.

» Can be to used to manually toggle between status modes via built-in capacitive switch.

🟢 Available   🔵 Booked   🔴 To be cleaned

🟡 Meeting   🔵 In use   🟣 Do not use

Below the Desk

2. Occupancy sensor

» 3 sensors to accurately report movement, presence and desk-height status (for height-adjustable workstation application).

» Integrates with CMS Engage Smart Cell to transmit occupancy data.

» Utilises Zigbee 3.0 and Bluetooth 5.1 via wireless mesh network.

» Power activation mode.

3. Smart cell

» Power monitoring and management.
  (On/Off, Schedule tasks, Zigbee 3.0, BLE 5.1 with mesh capability).

» Automatic reporting - power/energy analytics.

» Compatible with Engage sensor - occupancy and sit/stand detection.

» Simple 3 step paring method or can come pre-pared.

» Compatible with Engage statistic dashboard.

» Softwired structure.

» Compatible with Engage status indicator used above the desk.

» Physical reset button for on-site override.

In the Ceiling

4. Gateway

» The gateway acts as a portal to deliver event data of up to 80 devices to our Australian Based Amazon AWS cloud dashboards and mobile app while forming a wireless mesh system in-between and to our smart devices using Zigbee 3.0 and Bluetooth 5.1.

» Receives data communication from up to 40 Smart Cells and uploads to the network to be integrated into the user's building management system.

» REST API for easy into 3rd party building management platforms.

Product Specifications

Smart Sensor

Technical Data	Description
Input voltage (v)	5V, 50/60Hz, 0.25A max
Protocols supported	Zigbee and BLE 5.0
Operating temperature	0~50 °C, 0% - 90% RH
On-board sensors	Motion sensor, temperature sensor, & ultrasonic sensor
Zigbee profile	HA 1.2 profile
PIR human movement detection range (meters)	Up to 5m ceiling to floor
Human presence/availability detection range (meters)	Up to 2m with 80 degree angle
Height detection range (meters)	Up to 2m
Ambient temp detection	0°c to 60°c
LED Color of Smart Sensor	
Green	Available
Orange	In use

Smart Cell

Technical Data	Description
Input ratings	80 -280V AC(single phase), 50/60Hz
Output ratings	80 - 280V AC(single phase), 50/60Hz
Standby power	< 1.0W (in AP mode)
Maximum withstand voltage	< 280V AC (L-N) continuous
Number of load channels	80 - 280V AC - 1 No 5V USB DC x 2 @ 0.5 Amp each 5V ethernet ports for RGB & RFID
Maximum load rating	20 Amps in AC output 1.3 Amps total with 2 USB outputs
Protections	
Overvoltage protection	280V
Undervoltage protection	80V
Overcurrent protection	20A total
Communication	
Wireless frequency & module	Zigbee HA 3.0 profile and BLE 5.0
Environmental	
Temperature	Operating: 0° to 50°C Storage: -20° to 70°C
Relative humidity < 90%	< 90%
Status Indicators of Smart Box	
Red LED on	Load on
Red LED off	Load off
Solid blue	Configured and connected to the gateway
Blinking blue	Default mode (when not added to gateway)
Switch Functionality (Toggle Switch)	
Switch 1	On/Off (relay)
Switch 2 - Pairing button	Press and hold the button for 7 seconds the device will be added/deleted

Product Specifications

Gateway

Technical Data	Description
In put	100 ~ 240V, 50/60Hz, 0.6A
Output	5.0V DC, 3.0A 15.0W
Protocols supported	WiFi (2.4 GHz), BLE, Zigbee
Range	Wi-Fi : upto 30 meters Zigbee: up to 100 meters. This will be reduced with number of walls in between the end node and controller. BLE: Up to 20 meters
Channel selection	Zigbee channel selection available
Operating temperature	0° C to 40° C
Dimensions	140 x 140 x 20.5 mm
Status Indicators on Gateway	**Refer to installation manual**
Solid red	Ready to connect/configure and not added to any account
Blinking red	Unable to connect to the access point of hub, i.e. Access point is not available.
Blinking blue	Hub is trying to connect to it's access point and hub access point is not having internet
Solid blue	Added to account and it's fully functional (hub is connected to access point)

RFID Reader

Technical Data	Description
Reader module	13.56MHz
ISO/IEC	14443 type A
Cards - Tags supported	Mifare one (S50, S70, RC632 / ntag203 / ntag213 etc.)
Read range	Up to 50mm
RGB light	RGB led indication with colour infusion
Power supply	+3.3Vdc @100mA from CMS Electracom smart cell
Baud rate	9600bps or 115200bps
Communications speed	106Kbit/s
Operating temp	0°C to 80°C
Connection to smart cell	RJ45 pin