

Turntide Hub 500

Integrating devices and sensors, Turntide Hub 5000 makes building management effortless, with real-time data and insights available on demand anytime, anywhere with the Turntide app.



Best of all, unlike most existing systems, Turntide Hub 5000 helps integrate everything into one unifying, easy-to-use platform, so facilities managers can take a holistic approach to building management, which unlocks a deeper layer of insights that drive operational excellence, optimal occupant health and safety, and an improved overall bottom line.

Features

- + Secure remote access to Web & Mobile Applications *
- + Local scheduling, alarming and logic control
- + All point history stored forever in the cloud *
and locally for up to two weeks
- + Built-in VRF support for dual setpoint and auto-changeover logic
- + Multi-protocol auto discovery

* With subscription to Turntide App

Protocols Supported

BACnet MSTP, BACnet IP, Modbus RTU, Modbus TCP, Modbus ASCII, NOAA Weather, iButton Link, PointSix, Daikin DIII-Net, Johnson N2, Lennox Sysbus, Trane Comm4, Open ADR, Generic REST, Green Button

BACnet Services

- + BACnet Client
- + BACnet Server
- + BACnet Router
- + BBMD

Point Capacity

Manages ~5000 system points

BACnet Server adjusted point capacity ~2500

Hardware Options

- + Turntide VRF Adapter - can support up to 7 Daikin DIII-Net systems
- + CradlePoint Modem - for cellular connectivity
- + Other Gateways - to support LonWorks and other proprietary protocols

Dell Edge Gateway Model 5000 (Commercial Version)

Core Hardware

Dimensions	229 mm wide x 216 mm high x 64 mm deep (9 in x 8.5 in x 2.5 in)
Form Factor	Fanless design. Optimized for wall and DIN-rail mounting
Weight	3.0 Kg
Processor	Intel® Atom™ E3827 1.75GHz 2 cores
Operating System	Ubuntu Core 16 Linux OS
Memory	DDR3L type @ 1333MHz: 4G (8x 256Mx16 DDR3L)
Drive/Storage	32GB
I/O	Dual Independent Gigabit Ethernet (RJ-45) USB: 2 x USB2, 1 x USB3 Serial Interfaces: 1 x RS-232, 2 x RS-485. 1 x RS-422/485. 802.11n Wifi +Bluetooth Low Energy. Optional wireless mesh modules: IEEE 802.15.4 ZigBee/6LoWPAN combo module. Plus ISV application support for diverse modern and legacy device connection protocols.
Video	One HDMI port
Power Input	Nominal input 24V AC/DC (18 – 26.4V), 4.0 Amps. Also accepts standard Dell notebook AC adapter, 65W, 7.4mm plug.
Accessories/ Ecosystem	Turntide Enclosure, Turntide CradlePoint 4G Modem, Turntide VRF Adapter, Zigbee antenna

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Environmental/Design	Temp without Airflow	Operating: 0°C to 50°C Non-Operating: -40°C to 70°C
	Temp with 0.7 m/s Airflow	Operating: 0°C to 60°C
	Relative Humidity	Operating: 10% to 90% (non-condensing) @ 40°C Non-operating: 5% to 95% (non-condensing) @ 40°C
	Vibration	1.54 Grms, All Six Sides tested, 15 minutes per side
	Thermal Shock	150 cycles at system level at spec limits (-40, 85C); **min. 20C/min ramp and 10 min dwells
	Shock	Non-Operating: MIL-STD-810G, Method 514.7, Procedure 5 (Shock) - 160G Operating: MIL-STD-810G, Method 514.7, Procedure 1 (Shock) - 40G
	EMC	CE,FCC
	Safety	61010-1, 61010-2-201 & 60950-1. (IEC/EN/UL/CSA61010-1 and IEC/EN/UL/CSA61010-2-201.)
	Altitude	Operating: -15.20 m to 5000 m (-50 ft. to 16,404 ft.) [NOTE: maximum operating temperature is derated 1°C/305 m (1000 ft.) above sea level altitude.] Non-Operating: -15.20 m to 10,668 m (sea level to 35,000 ft.)
	Ingress Protection	IP50, IEC 60529
Security	Secure Boot, BIOS password and I/O port disablement. Chassis intrusion alerting via optional rugged enclosure.	
Warranty	3 years limited Hardware warranty.	

TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries.