

# Smart IOT Gateway

# T8000

## A Platform for Smart Home and Smart Nation

Rev 3.1

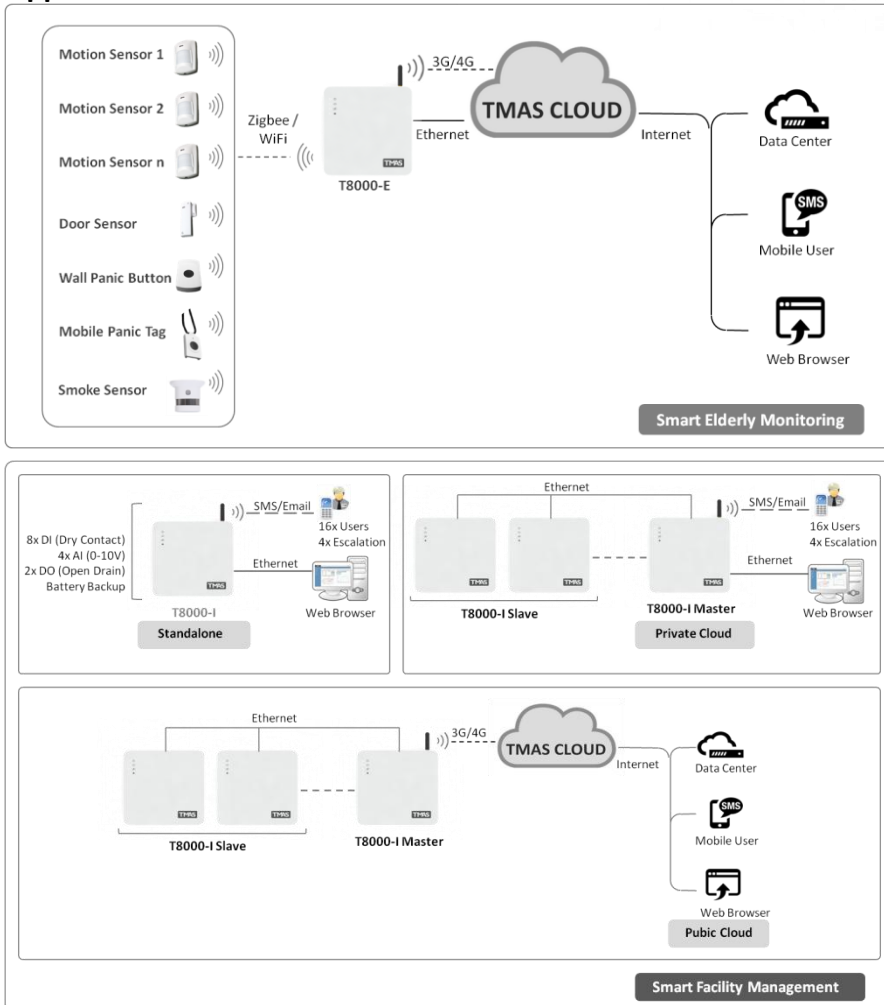


### System Overview

TMAS T8000, is the smart IOT gateway and controller for both smart home and industrial applications. It is designed to support Singapore Smart Nation Platform, and also in close compliance with Singapore IDA TR-38 and TR-40 standard.

T8000 is the industrial grade gateway, with consideration for mission critical installation and suit many operational requirement. It come with comprehensive I/O handling capabilities, with support both wired and wireless sensor networks. It has data logging and embedded web to manage the data profile and events efficiently. With local smart analytic capabilities, it is an ideal IOT Platform for many applications, such as building facilities management, smart home, elderly care, energy management etc.

### Application Block



### The Strength

- Industrial grade, with protection, reset and recovery
- Operational and service provider ready
- Direct wire or Zigbee wireless for smart sensor networks
- LAN / 3G to cloud for smart nation platform
- Data security and data portability design
- Comprehensive, highly configurable I/O management
- Powerful CPU for local application and analytic
- Large memory for data and event logging
- Comprehensive alarm/alert via SMS/Email
- Embedded web for configuration
- Graphical GUI for device and report management
- Local or Public Cloud ready
- Support standalone operation without cloud
- Supported international M2M SIM plan for global deployment



TMAS is a registered trademark of TCAM Technology Pte Ltd

Specifications	T8000	T8000-E	T8000-I
<b>General</b>			
Application	Wireless IOT Gateway	Smart Home	Industrial M2M / IOT
CPU and OS	32 bits Cortex A8 ARM / Linux OS		
Memory	SDRAM 512MB / Flash 4GB		
Unique App Module	Data Routing	EMS / UMS Analytic	I/O management and logging
SMS App Module	No	No	Yes
Em Web Configuration	Yes		
SQL dBase Module	No	Yes	Yes
<b>Network Specifications</b>			
Ethernet	10/100Mbps (RJ45)		
Cellular (Optional)	UMTS/HSPA+: 800/850,900,2100MHz		
Cellular Antenna	2dbi (Optional 5dbi with 3m cable ext antenna) via SMA Female (50Ω)		
Internet Protocol	HTTP / MQTT / JSON		
<b>I/O Specifications</b>			
I/O Channels	No	No	8xDI, 4x AI, 2xDO
Serial Port	No	No	1x RS232, 1x RS485 (optional)
USB 2.0 Port (Internal)	3		
Discrete Input (DI)	No	No	Configurable NC/NO Dry contact or TTL Signal
Analogue Input (AI)	No	No	0-10Vdc 12bits ADC
Discrete Output (DO)	No	No	Open Drain max 40Vdc 2A drain
Wireless I/O	Zigbee HA (WiFi optional) BLE 4.0 (optional)	Zigbee HA	Optional
<b>Power Supply</b>			
Supply Voltage	6~32VDC		
Battery Backup	No	No	3.7V 2000mAH (2 hours typ.)
Power Adaptor	230VAC / 12VDC 1A included		
<b>Mechanical</b>			
Enclosure Material	Polycarbonate (White)		
Dimension	183x183x22 mm		
Weight (Excl. accessories)	330g		
Mounting	Wall/Panel Mount or Desktop		
Operating Temperature	-25 to +85 °C		
Relative Humidity	90%		

Note: Specifications are subject to changes without notice



2 Kaki Bukit Ave 1 #05-04 Singapore 417938  
 Tel: 65-67461930 Fax: 65-67461938  
 Web: <http://www.tcam.com.sg>  
 Email: [enquiry@tcam.com.sg](mailto:enquiry@tcam.com.sg)

#### Distributor Details



TMAS is a registered trademark of TCAM Technology Pte Ltd