

## QUALITY POLICY

It is our commitment to provide the service with the highest standard of safety, quality and reliability that meet the specified requirements and expectations.



**KAF Idea Tech Sdn. Bhd.**  
"Your Easy Solution"

# TRAFFIC CONTROL SYSTEM

## iTAC Traffic Signal Controller



We Provide Traffic signal control products, support and services includes supply and installation of traffic light control equipment and operation, maintenance for signalized traffic control system

iTAC is microprocessor based intelligent traffic signal controller design to control from small size intersection to large size intersections with the maximum throughput and efficiency. It has highly modular structure which allows to fully scalable configuration and design. iTAC traffic controller is incorporated with fixed time mode, Multiplan mode, vehicle actuated mode, Multiplan vehicle actuated mode, Police control mode, UTC-link mode, Pelican mode, integrated Pelican mode, grid connected mode, flashing amber mode, Go-Green link mode, KAF XITS (XIM Intelligent Transportation System) link mode of operations and various VA (adaptable time based on vehicle volume instead of fixed time countdown) and non-VA mode of digital countdown operations.



### Key Benefits:

- Less waiting time hence lower carbon emissions
- Enhanced travel experience with improved efficiency
- Flexible and modular system design
- Adaptive Traffic Light Control
- Real Time Monitoring
- Lowering maintenance cost
- Improved Junction Throughput
- Remote Configuration
- Cycle time optimization

### Operation Mode

- Vehicle Actuated Mode
- MP Vehicle Actuated Mode
- Fixed Time Mode
- Multiplan Mode
- Police Control Mode
- UTC Link Mode
- Pelican (Pedestrian) Mode
- Go Green Link Mode
- XAITS Link Mode
- Digital Countdown Mode
- Grid Connected Mode
- Flashing Amber Mode
- Integrated Pelican Mode

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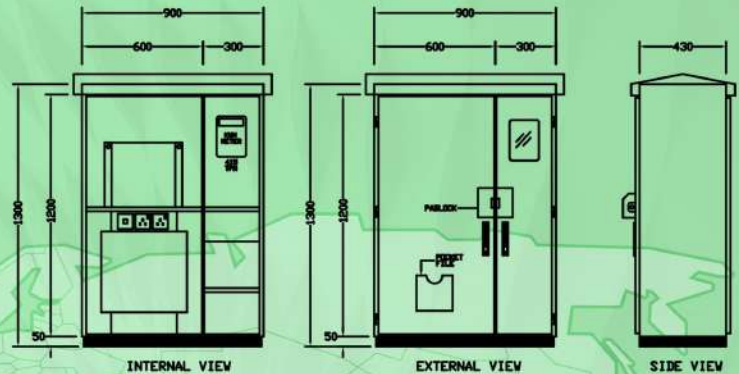
# OPERATIONAL SPECIFICATION

<b>MICROPROCESSOR</b>	Microprocessor based 32 bit
<b>SIGNAL GROUP</b>	Available in 4,8, 12,16,20 signal group configurations
<b>PEDESTRIAN OR VEHICLE PHASE</b>	Flow control up to 10 phase pedestrian or vehicle
<b>VEHICLE DETECTION INPUTS</b>	Vehicle detection inputs up to 16 inputs
<b>DIGITAL COUNTDOWN COUNTER COMPATIBILITY*</b>	Provide Non-Va, Semi VA and Full VA data to control countdown operating in: i) Dash ii) Skip Phase Jump Down
<b>COUNTDOWN COMMUNICATION</b>	Support wireless or wired
<b>DIGITAL INPUTS</b>	48 digital inputs
<b>PELICAN DEMAND</b>	Pelican demand up to 12 inputs
<b>UPS OR SOLAR POWER BACKUP SYSTEM MODULE</b>	Compatible (Depends on client requirement)
<b>COMPATIBILITY</b>	Hybrid compatible
<b>ON BOARD AND EXTERNAL MEMORY</b>	8MB with backup battery onboard and provision SD Card Slot
<b>FAULT LOG CAPACITY</b>	Capacity up to 10 years

<b>DATA LOG CAPACITY</b>	Capacity up to 3 years
<b>ONBOARD TOGGLE SWITCH</b>	Switch for forcing amber flashing and reset detection available onboard
<b>CONFLICT AND MONITORING COMPATIBILITY</b>	(Green on Green Conflict Monitoring), (Green - Yellow Conflict Monitoring), (Green - Red Conflict Monitoring), (Red - Yellow Conflict Monitoring), (Conflicting red/amber/green absence monitoring), (Safety action backup plan to flashing amber and blanking traffic light signal lamps), (Signal Lamp Fuse Blown)
<b>AUTOMATIC REVERT</b>	Automatic revert to multiplan time mode for any detection failure such as loop sensor detection, WVD detection and etc.
<b>PROGRAMMING SOFTWARE</b>	i-TAC Programming Software (Windows/Android/iOS)
<b>PPU CONNECTION INTERFACE</b>	USB/ RS-485/ RS-232/Bluetooth
<b>TRAFFIC LIGHT MANAGEMENT SYSTEM</b>	KAF XAITS/REACT
<b>VEHICLE DETECTION</b>	Using Inductive Loops sensor (Magnetic wave), Wireless vehicle detection (Motion sensor), CCTV (Image processing detection).
<b>COMMUNICATION METHODS TO CONTROL CENTRE</b>	LTE/4G/5G/WIFI
<b>COMMUNICATION AND SMS MODULE</b>	KAF XAITS connectivity, fault alert messages to mobile device, and Whatsapp/Telegram Messaging

# ELECTRO-MECHANICAL SPECIFICATIONS

<b>DIMENSION IN MM</b>	CONSIST OF 2 DIFFERENT DIMENSION - 4 Door Cabinet: 1300H x 900W x 430D - 2 Door Cabinet: 1130H x 850W x 300D
<b>CABINET MATERIAL</b>	1.5 mm thick epoxy coated oven-baked (grey) stainless steel (ss304), galvanized iron (GI), or electrogalvanized (EG) plate
<b>ACCESS</b>	Push key handle and key
<b>VENTILATION</b>	Roof and 4 meshed air vents
<b>WEIGHT</b>	80kg - 110kg depending on signal groups
<b>MAIN CONTROLLER FACEPLATE</b>	19"
<b>INCOMING VOLTAGE AND FREQUENCY</b>	230 VAC $\pm$ 10% at 50 Hz
<b>OPERATING TEMPERATURE</b>	-10 °C to 75 °C
<b>HUMIDITY TOLERANCE</b>	Non-condensing
<b>DEGREE OF PROTECTION</b>	IP55 Protection Standard
<b>ELECTROMAGNETIC COMPATIBILITY</b>	EN 50293 Compliant
<b>ENVIRONMENTAL STANDARD</b>	IEC 60068-2-14; IEC 60068-2-30 Compliant



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