



## SALIENT FEATURES

- Trainer offers comprehensive experiment set up explaining Bluetooth & Zigbee Protocols.
- Either my buy shared set up with replaceable NICs or independent setup of nodes for each technology. However NICs could be replaced in one setup to experiment with other.
- Table top setup made using light but sturdy Aluminum profile (4X2) Rack.
- Lab PC with serial / USB port required for network monitoring or ot work as user, PC not in scope of supply.
- Set of Users Guides provided with each unit.

## **Technical Specification**

	40040 Dive (a sth (000 45 4)	10041 7' 1 (902 15 4)	
Туре	10940 Bluetooth (802.15.1)	10941 Zigbee (802.15.4)	
Model Specification	• Operating Freq. Band ISM 2.4Hz 2.48GHz	• Operating Frequency Band ISM 2.4GHz	
	<ul> <li>Modulation Method : Gaussian Freq. Shift Keying Output</li> </ul>		
	• Output Interface: UART	• Outdoor line-of- sight : up to $400^{\circ}(120m)$	
	• Serial UART speed up to 921 .6kbps	• Transmit Power : $2mW (+3dBm)$	
	<ul> <li>Bluetooth Specification : v2.0+EDR</li> </ul>	Receiver Sensitivity: 95dBmRF Fata Rate:250,000bps	
	• Transmit Power Max. 18dBm	• TX Current: $40 \text{mA}(@3.3\text{V})$	
	• Receiving Sensitivity : 30dBm (0.1%BER)	• RX Current : $40\text{mA}$ (@3.3V)	
	• Compact size 27.5 X 30.0 X 14.0 (mm)	• Power	
	<ul> <li>Provdes transparent RS232 serial cable replacement</li> </ul>	• Each direct sequence channel has over 65,000 unique	
	• Support up to 4 multiple simultaneous connection	network addresses available Point to-Point, Point or	
	Profile : Serial Port Profile	multipoint and peer to- peer topologies supported Self	
	<ul> <li>Working Distance : Normally 100meters</li> </ul>	Routing, self -healing And fault-tolerant mesh networking	
	<ul> <li>RSSI Indication on LED</li> </ul>	RSSI Indication on LED	
Nodes	4 embedded Nodes with 4 replaceable NICs for each technology kept under transparent cover.		
Node Hardy	port (RS232C) 9pin D (M). C) In built USB to serial c SMD bicolor (green, red) 8X2LEDs &8 SMD push butt	A) Embedded Controller device: 89C668 operating @ 16MHz. On chip RAM: 8KB, Flash/EEPROM:64KB. B) Serial port (RS232C) 9pin D (M). C) In built USB to serial converter. D) Display: 20X4LED (Backlit). E) General Purpose SMD bicolor (green, red) 8X2LEDs &8 SMD push button switches/DIP switches. F) Power (SMPS): 5V/2.5Amp SMPS with RCA plug. SMPS.ACI/P230Vac+/-10%/50Hz X 4Nos.	
Node Softw		mbedded program written in C for Bluetooth & Zigbee protocol	
Network In		Zigbee application module mounted on adaptor PCB 4	
card	4 Nos	Nos	
PC Softwar	e Network Monitor	Network Monitor, X CTU Software	
	topics Configuring Master & Slave. Data exchange from one	Configuring Coordinator & End Devices. Data exchange	
Software	device to other. Select device name & transmit key, led	from one device to all connected in network. Observe	
	status messages to be observed LED.	text message, led status, frequency/temperature	
[		display.	
Mech.	900mm(L) X 300mm (W) X 720mm (H) / 20kg		
Dimension/			

Note: Specifications are subject to change.

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