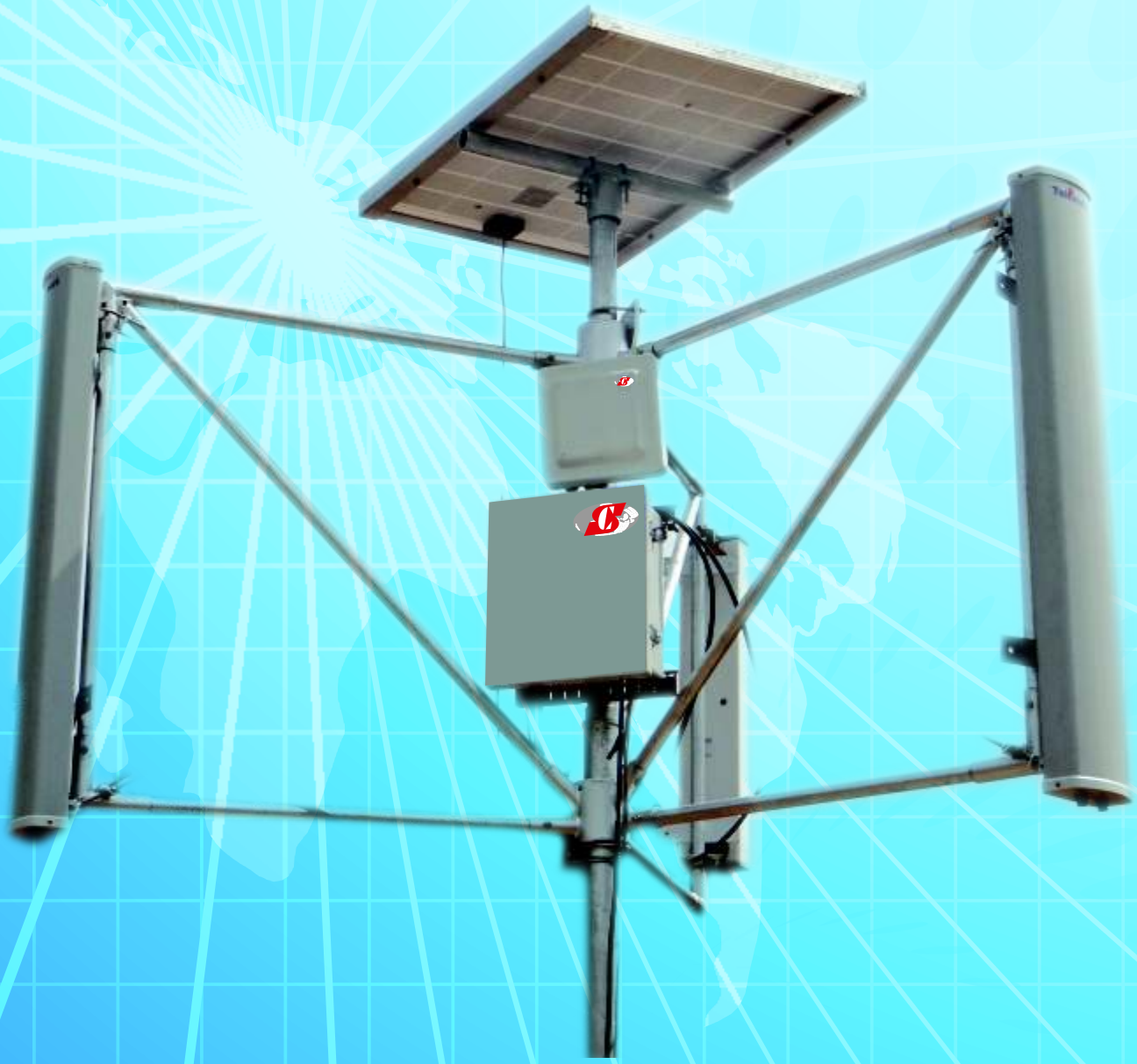
SYSTEM CONTROLS
TECHNOLOGY SOLUTIONS PVT. LTD.

Broad Band Wireless Terminal



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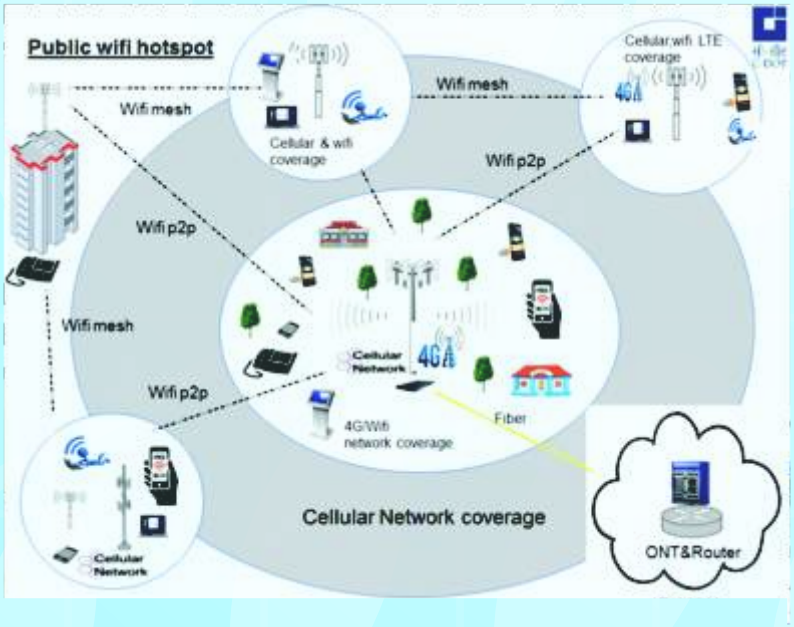
System Controls was established in 1984 in the heart of Silicon valley of India, Electronic City, Bangalore. System Controls is having rich experience in Manufacturing and Marketing Telecommunication Systems. We are also associated with major Telecom R&D Centers. System Controls is partnered with Center for Development of Telematics (CDOT), Government of INDIA, for Manufacturing Gigabit Passive Optical Network (GPON), Optical Line Termination (OLT), Optical Network Terminal (ONT), Broad Band Wireless Terminal (BBWT) and Green Power Supply Unit (GPSU).

Broad Band Wireless Terminal.



System Controls Broad Band Wireless Terminal provides a cost effective solution for extending IP connectivity to local community. It can also provide IP connectivity to Remote/Rural places where connectivity by wire is impossible. The System Controls BBWT has a centrally managed 802.11a/b/g/n Smart Wi-fi Access Point (AP) with advance capabilities, such as an integrated patch antenna designed for outdoor conditions. The system is packeged in a specially designed Enclosure and can operate in the temperature range 0° C to 65° C and Humidity up to 70% non-condensing. The system can be mounted on a pole or hung on the wall.

- Operates on 220 VAC and Compatible with Solar Power as Input
- Integrated Panel Antenna for Harsh Outdoor Conditions.
- Configurable Radios – Minimum one and Maximum three radios per unit
- Configurable Tx Power & Channel for each Radio
- Authentication as per 802.1x (RADIUS) and EAP methods
- Password encryption as per 802.11iAES

System Specification

- Operating in 2.4 Ghz and 5.8 Ghz lincense free band
- Support IEEE 802.11 a/b/g/n Standards
- Supports Optical and electrical Ethernet 10/100/1000 Mbps interface for bachual connectivity
- Internal GPS antenna and receiver for management
- Support 3 independently configurable radios per unit
- Support up to 300Mbps physical data
- Support wide input voltage range from 8V to 55V
- Support power supply redundancy
- Green Power Solutions
- Support power over Ethernet (PoE)
- User bandwidth and QoS Management through WLAN controller
- Network management through NMS
- WEP, WPA-PSK (AES), 802.11.3iAES, support for RADIUS
- Very compact package with intergrated or external Antennas

System Configurations

- Indoor access point
- Outdoor access point
- Wireless backhaul
- Point to point (Infrastructure mode) and point to multi point
- Mesh networking
- Repeater or Multi-hop
- Hotspot

Radio Specifications

- Standards : IEEE 802.11a/b/g/n
- Supported Data Rated: Up to 300Mbps
- RF Power output: 23 db
- Supports 2x2, 3x3 MIMO
- Channel bandwidth: 20Mhz and/or 40Mhz
- RF Management: Transmit power, Channel Management

Network Management

- Protocol : SNMP based, telnet / SSH, CAPWAP
- Local/Remote management using GUI
- Remote device, Users, bandwidth and QoS Management through WLAN controller
- Supports Remote Software upgrade

Traffic Management and QoS

- Class of Service : Voice, Video, best efforts and background
- Supports 802.11e
- Supports 802.1Q

Products ordering information

Model	Application
SC-VIPRA	Indoor Hotspot
SC-VIPRA1	Outdoor unit catering to 120 Degrees
SC-VIPRA2	Outdoor unit catering to 240 Degrees
SC-VIPRA3	Outdoor unit catering to 360 Degrees

Power

- Supports Power over Ethernet (PoE)
- Supports wide input range from 8v-55V
- Less than 15W power consumption
- Power can be sourced from power adaptor or directly from Panel without the need for external battery

Wireless Security

- WPA and WPA2 compliant
- Authentication: 202.1x(RADIUS) and EPA methods
- Encryption: 802.11i AES
- MAC address access control lists

Applications Areas	Benefits
College Campus Hospitals Amusement Parks Hotels/Resorts Bus Stations Railway Stations Airports	• All the blocks/buildings of the campus can be provided with IP connectivity through wifi without the physical laying of cables, there by saving investment on router switches &cables • No Maintenance of LAN cables • Can be integrated with RADIUS Server for user Control &Management • All Access Points in the network can be managed by one single interface in the network • Less number of Access Points when compared to the traditional Omnidirectional antenna can be configured using directional antenna. • Maximum No of Concurrent User Per Unit – 60 to 180 users. • No new Cabling required for adding new users to the network.

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