

# Bluetooth Access Point, Parani-MSP100



## Features

- Connects Bluetooth devices to 10/100 base-T Ethernet.
- Transmit Power - Max. +18dBm
- Receiving Sensitivity - -88dBm(0.1%BER)
- Antenna gain - Dipole: +4dBi, Patch: +8.5dBi
- Supports multi point connectivity
- Supports 7-point connectivity  
(Up to Max. 14 point using USB extension dongle)
- Supports data rate of Max. 723 Kbps with greater than 150m range.
- Supports Bluetooth profiles for Serial Port, LAN Access, PAN and Dial up Networking.
- Easy-to-use COM-Port redirector support
- Ideal wireless solution for the replacement of the wired multi-port serial card.
- Supports HTTP/FTP/Telnet/IP sharing/DHCP/PPP/RADIUS Authentication/SNMP.
- Easy to use Windows configuration tool available.
- Supports firmware upgrade via hyper terminal program or TFTP.

**The Parani-MSP100** enables multiple Bluetooth devices to connect to the Ethernet network simultaneously and without delay when they are within range. The Parani-MSP100 provides Class 1 Bluetooth wireless connectivity to Ethernet/Fast Ethernet. It supports all Bluetooth devices compatible with the Bluetooth Profiles for the Serial Port, Dial-up Networking, LAN Access and PAN. Along with the Serial Port Profile support, the Parani-MSP100 is the ideal solution for the replacement of the wired serial port application.

The Parani-MSP100 Series supports versatile host modes for various user applications, i.e. TCP Server and Client modes for TCP/IP-Bluetooth replay applications Vertex mode for multicasting, Repeater mode, Serial Hub mode and RS232 mode. The Parani-MSP100 runs on embedded Linux operating system, with Flash memory for easy software upgrades, and built-in Web server and Web interface for quick installation, and remote configuration and management. The Parani-MSP100 uses the RADIUS protocol for user authentication.

## Panel Layout



Typical application areas of the Parani-MSP100 include:

- Truck/Bus monitoring system
- Car Diagnostics
- Wireless POS system
- Wireless Factory monitoring PLC programming
- Wireless machine (healthcare/industrial) monitoring
- Wireless Printing
- Wireless logistics

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## Specifications

### **Ethernet Interface:**

- 10/100 Base-T Ethernet with RJ45 connector
- Supports Static IP and Dynamic IP address

### **Bluetooth Interface:**

- Bluetooth v2.0
- Class I
- Level - 18 dBm
- Profiles - Serial Port, LAN Access, PAN, Dial up Networking

### - Working distance

Parani-MSP100	Parani-SD100	
	Parani-ESD110	
Dipole Antenna	- Stub(Default) Antenna	up to 150m
Dipole Antenna	- Dipole Antenna	up to 200m
Dipole Antenna	- Patch Antenna	up to 400m
Patch Antenna	- Patch Antenna	up to 1000m

Note : USB Extension dongle - Nominal 150 meters.

### **Point to multi point connectivity**

- 7 (Up to Max. 14 point using USB extension dongle)

### **Network Protocols**

- HTTP, TFTP, Telnet, DHCP Server/Client
- SNMP v1/v2/v3
- PPP server and PPP tunneling
- RADIUS

### **Management**

- Windows Utility
- Web, Telnet, Serial Console
- Modem AT command set

### **Diagnostic LED:**

- POWER, STATUS, ERROR, EXT, INT

### **Power:**

- 5VDC
- 2A@ 5V

### **Environmental:**

- Operating temperature:  
0 c to 50 c
- Storage temperature:  
-20 c to 66 c
- Humidity: 90% Non-condensing

### **Physical properties:**

- Dimension (L x W x H)  
147 x 112 x 32 (mm) , 5.8 x 4.4 x 1.3 ( in.)
- Weight: 225g

### **Certification:**

- FCC, CE, MIC, TELEC

### **Warranty:**

- 3-year limited warranty

## Ordering Information

**MSP100** Industrial Bluetooth Access Point with virtual serial port support

### **Includes :**

- DC Power Adapter
- DAT : Parani-DAT Dipole Antenna-SMA Male-Left Handed
- Serial data cable
- Ethernet cross cable
- CD-ROM

### **Optional Accessories :**

- PAT : Parani-PAT Patch Antenna-SMA R/A Female-Right Handed
- RFC : Parani-RFC 1m Antenna Extension Cable for Patch antenna
- MBD : Parani-MBD Bluetooth USB extension dongle for MSP100
- SLR : SMA-Male left handed to right handed adapter

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