

# Bluetooth Access Point, Parani™ MSP1000



## Features

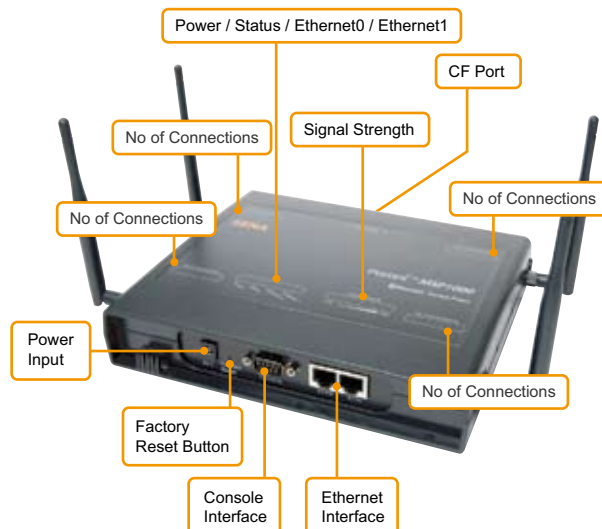
- Connects Bluetooth devices to 10/100 base-T Ethernet
- Supports Bluetooth 2.0+EDR, up to 3Mbps throughput
- 7/14/28 Bluetooth Connections support
- Supports Bluetooth profiles for Serial Port, LAN Access, PAN, File Transfer and Dial up Networking.
- Dual Ethernet support for fail-over operation
- Ideal wireless solution for the replacement of the wired multi-port serial card.
- Easy-to-use COM-Port redirector support, RFC 2217, Telnet COM Port Control Protocol
- Flexible TCP/UDP host mode support: Multiple host connection/data transfer
- Supports system logging & port logging
- Supports Python Script Engine for user customization
- Supports firmware upgrade via web, hyper terminal program or etc.

**The Parani-MSP1000** is a Bluetooth Access Point to enable Bluetooth devices to be connected to 10/100Mbps Ethernet network. Parani-MSP1000 supports 7, 14, and 28 Bluetooth connections according to the model, and it supports up to 3Mbps throughput through Bluetooth 2.0+EDR specification. Parani-MSP1000 is a class 1 Bluetooth device that supports 150m using basic dipole antenna and up to 1 km using patch antenna. Parani-MSP1000 supports such profiles as Serial Port, LAN access, PAN and FTP for various applications. For ideal serial cable replacement applications, we provide free COM/TTY port redirector software for Windows/Linux. Parani-MSP1000 is based on embedded Linux system and it supports strong security mechanisms such as SSL, TLS, SSH and IP filtering functions. Users also can customize the features of the box easily by using Python script.

Typical application areas of the Parani-MSP1000 include:

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

## Panel Layout



## Specifications

### **Ethernet Interface**

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

### **Bluetooth Interface**

- Bluetooth v2.0 + EDR
- Class 1
- Profiles: Serial Port, LAN Access, PAN, Dial up Networking, File Transfer
- Data rate: up to 3Mbps
- Working distance

	Parani-SD100	
	Parani-ESD110	
DAT-G01R Antenna	- SAT-G01R Antenna	up to 150m
DAT-G01R Antenna	- DAT-G01R Antenna	up to 200m
DAT-G01R Antenna	- DAT5-G01R Antenna	up to 300m
DAT-G01R Antenna	- PAT-G01R Antenna	up to 500m
DAT5-G01R Antenna	- DAT5-G01R Antenna	up to 400m
DAT5-G01R Antenna	- PAT-G01R Antenna	up to 600m
PAT-G01R Antenna	- PAT-G01R Antenna	up to 1000m

**Max. Tx power:** +17dBm(Using DAT-G01R Antenna)

**Receive Sensitivity:** -88dBm

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

- Up to 28 connections

### **Network Protocols**

- IPv4, ICMP, ARP, TCP, HTTP, telnet, TFTP
- SSH, HTTPS, SSL/TLS, DNS
- SCP/SFTP/FTP, syslog, NTP
- SMTP, Dynamic DNS

**Security:** IP Filtering, SSH v2, SSL/TLS, HTTPS, SCP, SFTP

**CF Port:** Flash memory

**Logging:** Syslog server, CF memory

**Real Time Clock:** Built-in support

### **Customization**

- Python Script engine, ELDK v4.0, 2MB internal user space

### **Management**

- Windows Utility
- Web, Telnet, Serial Console

### **Firmware Upgrade**

- Telnet/SSH, Web, Bootp, CF memory, Zmodem, TFTP

### **Diagnostic LED**

- POWER, STATUS, Ethernet0, Ethernet1
- Signal Strength, No of Connections

### **Power**

- 5VDC
- Nominal Current Consumption: 1.2A@ 5VDC approximately

### **Environmental**

- Operating temperature: 0°C to 50°C
- Storage temperature: -30°C to 85°C
- Humidity: 90% Non-condensing

### **Physical properties**

- Dimension(L x W x H):  
203 x 170 x 44(mm)  
7.99 x 6.69 x 1.73( in.)
- Weight:  
MSP1000A: 1414g  
MSP1000B: 1432g  
MSP1000C: 1468g

**MTBF:** 30.52 Years

**Certification:** FCC, CE, TELEC

**Warranty:** 3-year limited warranty

## Ordering Information

**MSP1000A** Parani-MSP1000A Industrial Bluetooth Access Point with 7 connections support

**MSP1000B** Parani-MSP1000B Industrial Bluetooth Access Point with 14 connections support

**MSP1000C** Parani-MSP1000C Industrial Bluetooth Access Point with 28 connections support

### **Includes**

- DC Power Adapter
- DAT-G01R: 3 dBi Dipole Antenna - RP-SMA Plug Right-hand Thread
- Serial data cable
- Ethernet straight cable
- Wall mount bracket
- Quick Start Guide

### **Optional Accessories**

- DAT5-G01R: 5 dBi Dipole Antenna - RP-SMA Plug Right-hand Thread
- PAT-G01R: 9dBi Patch Antenna with RP-SMA Plug Right hand Thread Default Cable.  
(SMA Jack Right hand Thread w/o Default Cable)
- SEC-G01R: 15cm Extension Cable(For SAT-G01R / DAT-G01R / DAT5-G01R)
- RFC-G01R: 1m Extension Cable(For PAT-G01R)

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