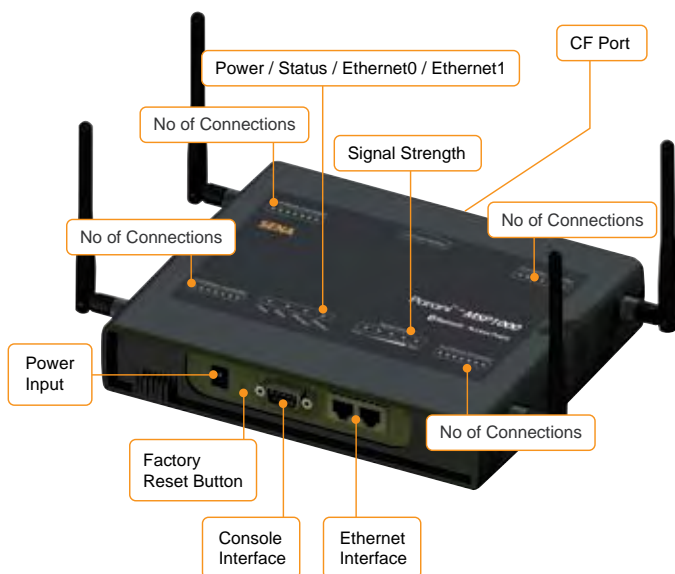## Features

- 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 series 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 series is a class 1 Bluetooth device that supports 150m using basic dipole antenna and up to 1 km using patch antenna.

Parani-MSP1000 series 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 series 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

SENA
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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-MSP1000		Parani-SD100 Parani-ESD110	
DAT-G01R Antenna	-	Stub(Default) 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: +17dBi(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
- SNMP, SMTP, Dynamic DNS

Security:
- IP Filtering, SSH v2, SSL/TLS, SNMP

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, MIC, 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 Antenna: 3 dBi Dipole Antenna-RP-SMA-Reverse right-hand thread*
- *Serial data cable*
- *Ethernet straight cable*
- *Wall mount bracket*
- *Quick Start Guide*
- *CD-ROM*

Optional Accessories :
- *DAT5-G01R Antenna: 5 dBi Dipole Antenna-RP-SMA-Reverse right-hand thread*
- *PAT-G01R Antenna: 9 dBi Patch Antenna-RP-SMA-Reverse right-hand thread*
- *SEC-G01R : 15cm Antenna Extension Cable-RP-SMA-Reverse right-hand thread*
- *RFC-G01R: 1m Antenna Extension Cable-RP-SMA-Reverse right-hand thread for PAT-G01R*

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