



ESB5001/5004 EthIR LAN™: Infrared Ethernet Access Point for mobile devices

ESB5001 and ESB5004 are infrared to Ethernet access points for connecting PDAs or handheld computing devices to an Ethernet 10/100 Base-T network through the devices' IR ports running TCP/IP network protocol. ESB5001/5004 belongs to the EthIR LAN product line which contains single port ESB101/301/3011b/1000 and multi-port ESB208/216/608 early models.

ESB5001 is equipped with one USB IR ports, while ESB5004 is equipped with four USB IR ports, and four 10/100 Base-T one for uplink and three for computers.

Each connected mobile device can perform server synchronization, Internet browsing, and file transfer. The EthIR LAN provides an alternative network connection with high security and reliability standards. The EthIR LAN works perfectly for mobile users, field application staff, and in any environment that requires a high level of security and reliability.

EthIR LAN family includes the following models

Model	Network Access TCP/IP/PPP over IrComm & IrNet	Special function*	USB IR Beam** SIR/FIR
ESB5001DT	Yes	-	1 desktop
ESB5004DT **	Yes	-	4 desktop

** Not in production yet. Please contact Clarinet for availability.

Per customer's requirement, special functions may be added to standard EthIR LAN. For example, customized serial IrComm access function and VFIR EthIR Beam™ supports 16Mbps IrDA VFIR.

ESB5001 is a new generation of single port EthIR LAN

ES5001 EthIR Switch™, which normally stays near users, includes one USB2.0 port and four 10/100 Base-T, one for uplink and three for LAN, provides TCP/IP network connectivity for IrDA function over 4' USB IR adapters and other functions.

ESB5001DT contains one ES5001 and one desktop EthIR Beam™ - EB5000DT USB IR adapter.

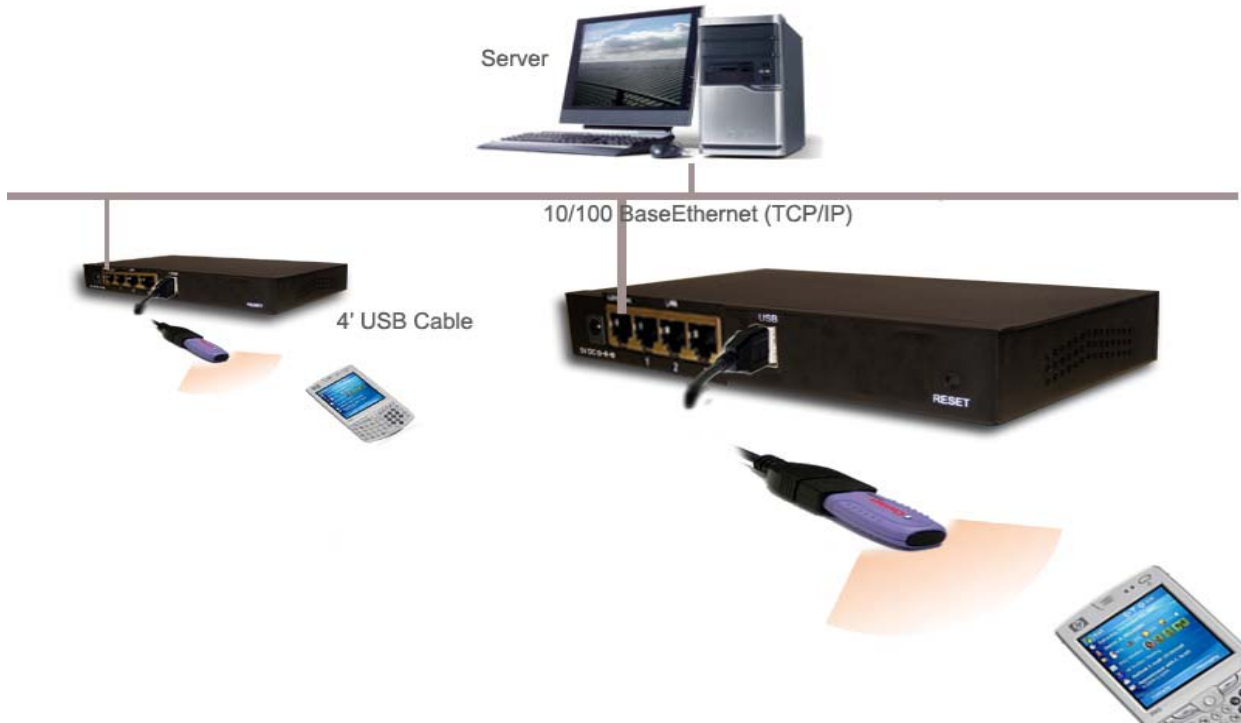


Figure 1: ESB5001 System configuration



Figure 2: ES5001 component



Figure 3: EB5000DT desktop infrared beam

ESB5004 is a new generation of multi-port EthIR LAN

ESB5004DT contains one ES5004 EthIR Switch and four EB5000DT desktop USB IR adapters. ESB5004WM contains one ES5004 and four wall mount EthIR Beam - EB5000WM USB IR adapters. [\(Please contact Clarinet for availability of ESB5004DT and ESB5004WM.\)](#)

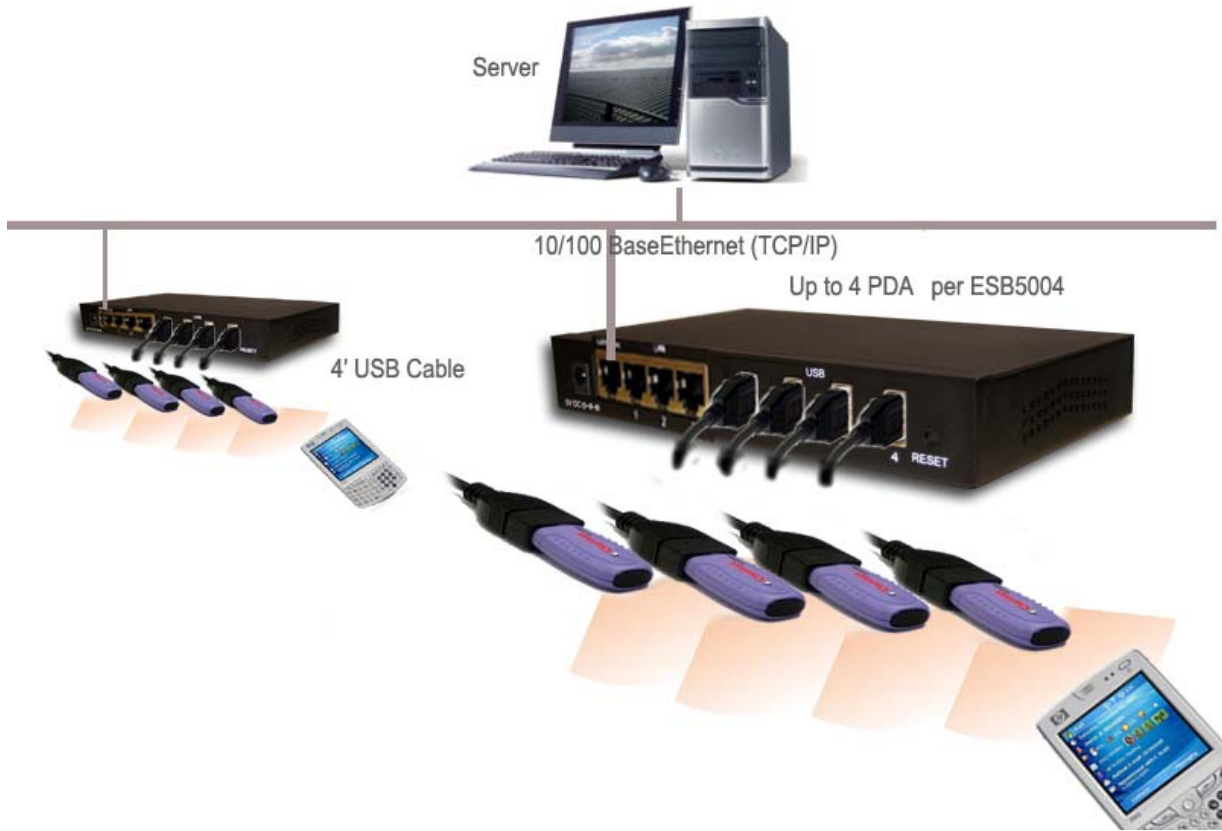


Figure 4: ESB5004 System configuration



Figure 5: ES5004 component



Figure 6: EB5000DT desktop and EB5000WM wall-mount infrared beam

Advantages

- Connect up to four mobile devices simultaneously
- Provide an alternative network connection other than WiFi
- High security and reliability standards
- Fast and easy installation

Main features

- Ethernet connection via IrDA infrared for PDA and smart phone
- Supports Windows Mobile 5.0, CE5, PPC2003/2003SE, CE.NET 4.1/4.2, Palm and Psion
- DHCP assigns an IP address to ES5001/5004 and internal NAT assigns IP to each USB/IR port for mobile device
- Web based administration tool

Specifications

Port Connectors

EthIR Switch

EthIR Beam

PDA Requirements

System Requirements

Regulatory Compliance

Dimensions and weight

ES5001/5004

EB5000DT

EB5000WM

Operating temperature

Humidity

Storage temperature

One/Four USB 2.0 hardware ports, four 10/100 Ethernet

USB 1.1, IrDA v1.1 - 115Kb SIR and 4Mb FIR

WM5.0, CE5, PPC2003/2003SE, CE.NET 4.1/4.2, Palm and Psion

Internet Explorer for configuring ES5001/5004

FCC, CE, VCCI

(L x W x H in mm and ") and (Kg and oz)

152 x 88 x 25; 6" x 3.5" x 1" 0.5kg; 18 oz

47 x 18 x 9; 1.85" x 0.7" x 0.35" 0.006kg; 0.2 oz (include 4' USB cable)

70 x 28 x 114; 2.8" x 1.1" x 4.6" 0.08kg; 3 oz (exclude 4' USB cable)

0°C ~ 40°C

10% ~ 90% RH (Non-condensing)

-20°C ~ 90°C