

AP160 Performance Test Result

Test Environment

1. Test Equipment Smartbit 2000
2. Test software Smart Window
3. RS232C Connectio 57600 bps (DCE <-> DTE)
2. Modem Connector 33600 bps (DCE <-> DCE)
3. Async protocol PPP

Unidirectional Test

| Ethernet Packet Size | Throughput (PPS) | Async Packet Size | Async Throughput (CPS, BPS) |
|----------------------|------------------|-------------------|-----------------------------|
| 64 | 108 | 53 | 5724, 45792 |
| 128 | 49 | 120 | 5880, 47040 |
| 256 | 24 | 249 | 5976, 47808 |
| 512 | 11 | 510 | 5610, 44880 |
| 1024 | 6 | 1029 | 6174, 49392 |
| 1500 | 4 | 1513 | 6052, 48416 |

Bidirectional Test

| Ethernet Packet Size | Throughput (PPS) | Async Packet Size | Async Throughput (CPS, BPS) |
|----------------------|------------------|-------------------|-----------------------------|
| 64 | 108 | 53 | 5724, 45792 |
| 128 | 49 | 120 | 5880, 47040 |
| 256 | 24 | 249 | 5976, 47808 |
| 512 | 11 | 510 | 5610, 44880 |
| 1024 | 6 | 1029 | 6174, 49392 |
| 1500 | 4 | 1513 | 6052, 48416 |

PPS : Packet Per Second

CPS : Code Per Second

BPS : Bit Per Second

Modem Connection Status (AT&V1)

| | |
|-----------------|-----------|
| LAST TX rate | 33600 BPS |
| HIGHEST TX rate | 33600 BPS |
| LAST RX rate | 33600 BPS |
| HIGHEST RX rate | 33600 BPS |
| PROTOCOL | LAPM |
| COMPRESSION | V44 |
| Line QUALITY | 47 |
| Rx LEVEL | 17 |
| EQM Sum | 16 |
| RBS Pattern | FF |
| Digital Loss | None |

Modulation Control 상태 (AT+MS?)

+MS: V92,1,300,48000,300,56000

Comment :

From this test result , we know that the maximum data throughput between two dialup AP160 is almost same under the different ethernet packet size. This means that processing power of AP160 is enough and the maximum data thoughput is dependent on modem bandwidth.
In async thoughput data, the reason why the async thoughput BPS(Bit per Second) value is greater than 33600BPS modem setting value is that V44 compression mode is enabled as shown in modem connection status table.

