

# SIP Bandwidth Requirements

1 channel of G729 = 30 kbps (Voice)

1 channel of G711 = 86 kbps (Fax)

Voice Lines	Required Bandwidth	Voice with 1 Fax Line	Voice with 2 Fax Lines
2	60 kbps	146 kbps	232 kbps
3	90 kbps	176 kbps	262 kbps
4	120 kbps	206 kbps	292 kbps
5	150 kbps	236 kbps	322 kbps
6	180 kbps	266 kbps	352 kbps
7	210 kbps	296 kbps	382 kbps
8	240 kbps	326 kbps	412 kbps
9	270 kbps	356 kbps	442 kbps
10	300 kbps	386 kbps	472 kbps
11	330 kbps	416 kbps	502 kbps
12	360 kbps	446 kbps	532 kbps
13	390 kbps	476 kbps	562 kbps
14	420 kbps	506 kbps	592 kbps
15	450 kbps	536 kbps	622 kbps
16	480 kbps	566 kbps	652 kbps
17	510 kbps	596 kbps	682 kbps
18	540 kbps	626 kbps	712 kbps
19	570 kbps	656 kbps	742 kbps
20	600 kbps	686 kbps	772 kbps
21	630 kbps	716 kbps	802 kbps
22	660 kbps	746 kbps	832 kbps
23	690 kbps	776 kbps	862 kbps
24	720 kbps	806 kbps	892 kbps
48	1440 kbps	1526 kbps	1612 kbps
72	2160 kbps	2246 kbps	2332 kbps
96	2880 kbps	2966 kbps	3052 kbps

*\*These calculations are for Voice/fax traffic only and do not take into consideration the data needs of the customer.*

*\*\*Required bandwidth is bi-directional.*

*\*\*\*Customer should be aware that not all Transaction Processing Hardware nor their related application providers,*

*such as Bank or Credit Card Processing companies, support the use of VoIP. Although adequate*

*service may be achieved in many cases AccessLine cannot recommend or support Customer's use*

*of Transaction Processing Hardware with the Service.*