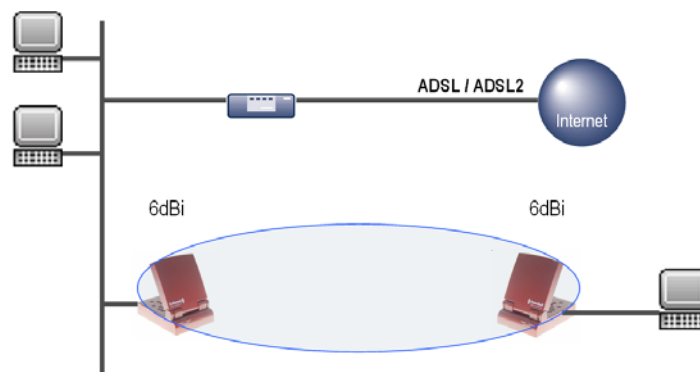


## artem Solution—W100: Range Extension Using two W100



By means of the integrated 6 dBi antenna, the W100 can attain longer transmission ranges than the standard products, because the antenna gain with 6 dBi is considerably higher. Moreover, interferences by neighboring radio applications can be reduced, since less neighboring signals are received due to the adjustment characteristics of the antenna. The table shows the ranges attained with identical output performance. The differing ranges are due to the antennas used and refer to a free line of sight. Within buildings, the ranges will usually be significantly shorter. A 2 dBi antenna is specified as a standard antenna here. It is contained in the scope of delivery of the Wx000, X2302w, and R232bw devices and of the PCI client card.

<b>Example:</b>	<b>Products</b>	<b>Data Rate Mbps</b>	<b>Range in m</b>	<b>Antenna Gain in dBi</b>
<b>1</b>	2 x standard antennas	54	48	2 + 2
		11	245	2 + 2
<b>2</b>	1 x standard antenna, 1 x W100	54	76	2 + 6
		11	390	2 + 6
<b>3</b>	2 x W100	54	120	6 + 6
		11	620	6 + 6

