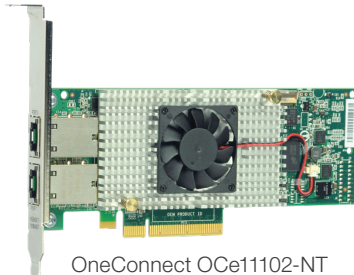


10GBASE-T vs. GbE Cost Comparison

At a Glance

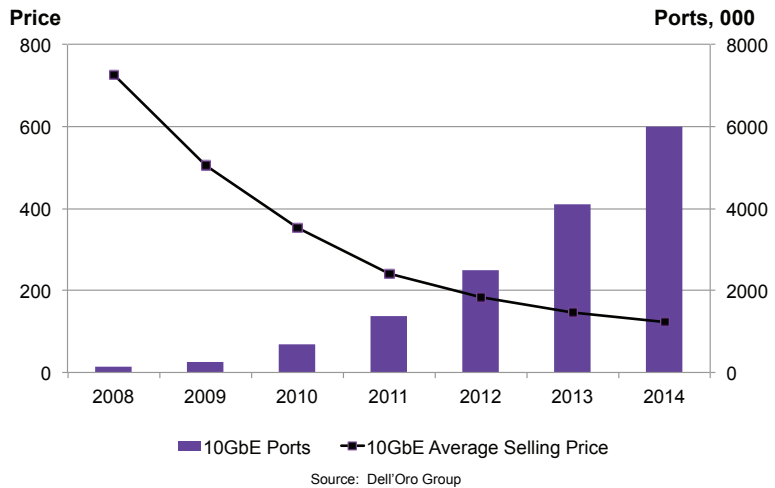
10GBASE-T reduces the cost per megabit of I/O bandwidth when compared to GbE:

- Ten times the bandwidth at five times the price
- 50% cost savings per megabit of bandwidth
- Backward compatible with existing GbE switches



OneConnect OCe11102-NT

The transition from Gigabit Ethernet (GbE) to 10 Gigabit Ethernet (10GbE) is gathering momentum. As shown below, this trend is driven by a rapid decline in prices for 10GbE adapters. The same effect applies to 10GbE switches.



A key part of the transition is the emergence of adapters and switches that support 10GBASE-T technology. 10GBASE-T works with twisted pair Cat 6 or Cat 6a cabling which is much less expensive than optic cabling and supports longer cable runs than direct attach copper cabling.

The following is a comparison of costs for GbE vs 10GBASE-T using twisted pair cabling. 10GBASE-T is also backward compatible with GbE switches, allowing servers to be deployed with connectivity to existing GbE switches and support a future update to 10GbE switches.

Component	GbE		10GBASE-T	
	Price	Price per Port	Price	Price per Port
Dual-port adapter	\$176	\$88	\$736	\$368
24-port switch	\$2500	\$104	\$17,934	\$747
Cable		\$32		\$32
Total		\$224		\$1147
Price per Gigabit		\$224		\$115

As shown in this analysis, 10GBASE-T provides 10 times the bandwidth at slightly more than 5 times the price, or approximately half the price per gigabit of available bandwidth.