



FCIA DRAFT SPEEDMAP V24

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FIBRE CHANNEL SPEEDS

Product Naming	Throughput (Mbytes/s)*	Line Rate (Gbaud)	T11 Specification Technically Complete (Year) †	Market Availability (Year) †
8GFC	1,600	8.5 NRZ	2006	2008
16GFC	3,200	14.025 NRZ	2009	2011
32GFC	6,400	28.05 NRZ	2013	2016
64GFC	12,800	28.9 PAM-4	2017	2020
128GFC	24,850	56.1 PAM-4	2022	2024
256GFC	49,700	112.2 PAM-4	2025	Market Demand
512GFC	TBD	TBD	2029	Market Demand
1TFC	TBD	TBD	2033	Market Demand

FC
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“FC” used throughout all applications for Fibre Channel infrastructure and devices, including edge and ISL interconnects. Each speed maintains backward compatibility at least two previous generations (i.e., 32GFC backward compatible to 16GFC and 8GFC)

*These numbers are representative throughput values for the line rate and are payload dependent

† Dates: Future dates estimated

ISL SPEEDS

ISL
(Inter-Switch Link)



Product Naming	Throughput (MBytes/s)*	Line Rate (Gbaud)†	Standard Technically Complete (Year)‡§	Market Availability (Year)‡
10GFC	2,400	10.52 NRZ	2003	2009
128GFC	25,600	4X28.05 NRZ	2014	2016
256GFC	51,200	4X28.9 PAM-4	2018	2020

ISLs are usually multi-lane interconnects used for non-edge, core connections, and other high speed applications demanding maximum bandwidth.

ISL's utilize high bit-rates to accommodate the funneling of edge connections. Some ISL solutions are vendor-proprietary.

*These numbers are representative throughput values for the line rate and are payload dependent

† Equivalent Line Rate: Rates listed are equivalent data rates for serial stream methodologies.

‡ Dates: Future dates estimated

§ FCoE standard completion date is the completion of the Ethernet standard



FCIA OFFICIAL SPEEDMAP

V23

Approved by
Roadmap
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