

Ethernet Frame Sizes

64 bytes

Frame Part	Minimum Frame Size	Maximum Frame Size
Inter Frame Gap	12 bytes	12 bytes
MAC Preamble (+ SFD)	8 bytes	8 bytes
MAC Destination Address	6 bytes	6 bytes
MAC Source Address	6 bytes	6 bytes
MAC Type (or length)	2 bytes	2 bytes
Payload (Network PDU)	46 bytes	1,500 bytes
Check Sequence (CRC)	4 bytes	4 bytes
Total Frame Physical Size	84 bytes	1, 538 bytes

Ethernet Frames vs Time

	1 Gbit	10 Gbit
Dati	1'000'000'000 bit/sec 125'000'000 bytes/sec	10'000'000'000 bit/sec 1'250'000'000 bytes/sec
Pacchetto Minimo (incluso Preamble/CRC)	84 bytes	84 bytes
PPS	$1250000000/84 =$ 1'488'095 pps	$12500000000/84 =$ 14'880'950 pps
Frequenza Arrivo Minima Pacchetti	$1 \text{ sec} / 1488095 =$ 672 nsec	$1 \text{ sec} / 14880950 =$ 67,2 nsec