

1. Record Nr.	UNINA9910440660003321
Titolo	8802-3-2021 - ISO/IEC/IEEE International Standard - Telecommunications and exchange between information technology systems--Requirements for local and metropolitan area networks--Part 3 : Standard for Ethernet / / Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	[Place of publication not identified] : , : IEEE, , 2021
ISBN	1-5044-7438-4
Descrizione fisica	1 online resource
Disciplina	658.05
Soggetti	Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Ethernet local area network operation is specified for selected speeds of operation from 1 Mb/s to 400 Gb/s using a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MII)s allow use of selected Physical Layer devices (PHY) for operation over coaxial, twisted pair or fiber optic cables, or electrical backplanes. System considerations for multisegment shared access networks describe the use of Repeaters that are defined for operational speeds up to 1000 Mb/s. Local Area Network (LAN) operation is supported at all speeds. Other specified capabilities include: various PHY types for access networks, PHYs suitable for metropolitan area network applications, and the provision of power over selected twisted pair PHY types.</p>