

EDA Fiber Solutions

Fiber-based broadband access





Years of broadband experience and market-proven fiber deployment have made Ericsson one of the market leaders in the broadband fiber access area. A comprehensive selection of fiber-based products forms the basis for Ericsson's EDA Fiber Solutions, delivering a future of seamless real-time services to any user at any time. High capacity broadband built on switched Ethernet solves any possible situation for greenfield deployment as well as for major upgrades of the existing infrastructure.

With EDA Fiber Solutions, access providers can target residential users, small offices/home offices (SOHOs), small to medium enterprises (SMEs), as well as municipalities.

EDA Fiber Solutions enable Quality of Service guaranteed Voice over IP and a variety of bandwidth demanding applications such as triple play services (combination of voice, data and video) to residential end-users as well as high speed Internet for business. EDA Fiber Solutions provide symmetrical bandwidth that can be configured in a range of distinct steps from 0.5 to 100 Mbps to each end-user.

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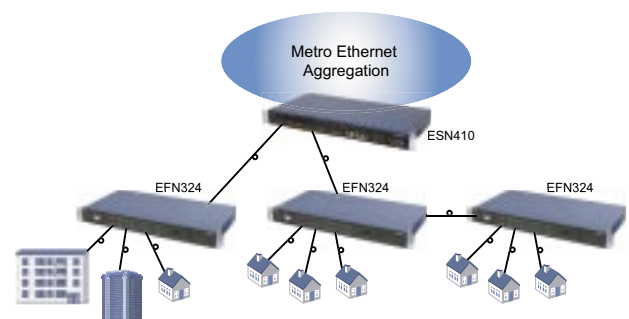
Ericsson's EDA Fiber Solutions offer the maximum possible speed allowing the most demanding end-user services to be delivered simultaneously. EDA Fiber Solutions provide optical Ethernet access for all types of users and applications, offering capabilities such as Quality of Service, security, and traffic separation required for multi-services. EDA Fiber Solutions as the active electronics part of the infrastructure work hand in hand with Ericsson passive components including the actual optical fiber systems and/or cables – both blown and drawn.

The active part is based on proven, cost-effective Public Ethernet Point-to-Point network topology. Offering high scalability in size and performance, the solutions are ideal for stepwise service provisioning and service bundling.

End-to-end

With EDA Fiber Solutions, Ericsson offers equipment for complete end-to-end broadband access. In addition to delivering equipment such as CPEs, fiber access nodes, aggregation nodes and edge routers for the network as well as passive components such as optical fiber systems, ducts, fiber cables, Ribbonet™, Micronet™, ODF and splicing equipment and many more, Ericsson can also offer complete turnkey solutions comprising the actual active and passive infrastructure but also a range of professional services from the early stage of business consulting through network and service design, actual implementation and integration. It goes without saying that Ericsson can take the responsibility of project management and when everything is in place, even run and manage the networks for the success of our customers. Hosting is another attractive option.

The Ethernet Fiber Node, such as EFN324 can be seen as a network element doing for fiber broadband access what Local Exchanges were doing for narrowband access in POTS networks. It is a common denominator for the EDA fiber solutions and serves as a termination point of customers' fiber access lines, and an entry point to the all IP multi-service network.



Ethernet Fiber Node EFN324

The EDA Ethernet Fiber Node, EFN324, is a multi-functional node, used for termination of end-users fiber access lines offering them differentiated value-added IP services in the network. It is a second-generation fiber access product, using the latest technology and standards providing cost-effectiveness and scalability. EFN324 provides 24 downlinks and two Combo GbE uplinks.



EFN324

Ethernet switch ESN410

The EDA Ethernet switch, ESN410, is a cost-efficient 12-port gigabit switch for uplink and downlink, providing high-value broadband aggregation in the network. It is a Layer 2 Gigabit Ethernet aggregation switch also supporting Layer 3 functionalities such as IP routing.



ESN410

Quality of Service and security

The EDA Fiber Solutions network support the following security aspects:

- Separation of traffic and services into user and/or service VLANs, giving the access provider the ability to manage a multitude of traffic flows from several service providers
- Bandwidth prioritization, enabling service differentiation to end-users
- Bandwidth limitations, enabling cost-efficient use of bandwidth
- Mac Forced Forwarding, to avoid unwanted broadcast and uncontrolled peer-to-peer traffic
- Traffic filtering to avoid theft-of-service attacks, spoofing and abuse attempts
- Virtual MAC addresses to avoid unauthorized access to sensitive information or disconnection of users

Management system

The Ericsson Public Ethernet Manager (PEM) secures operation and maintenance of the EDA Fiber Solutions. PEM offers full element management, both via an open Northbound Interface, and via an extensive graphical user interface, and has been designed to assist operators with network management processes.

Standardization activities

Ericsson is shaping the future by transforming networks to meet the needs of the customers of today's broadband world. In addition, Ericsson is one of the leading forces within fiber access and plays a key role in a number of standardization groups focused on fiber access.



Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership. Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.

For more information, please contact your local Ericsson representative.