



Electronics Corporation of India Limited
(A Government of India - Department of Atomic Energy - Enterprise)
HYDERABAD 500 062

PRESS RELEASE

ECIL to manufacture High-Speed Routers developed by IIT Bombay

Electronics Corporation Of India Ltd., a Hyderabad based Public Sector Enterprise supplying Strategic Electronics equipment to Nuclear, Defence, Security, Aerospace and eGovernance sectors, entered into a licensing agreement with IIT Bombay to manufacture High Speed Transport Routers developed by the Gigabit Networking Laboratory at IIT Bombay. Based on an innovative technology developed by Prof. Ashwin Gumaste and his team, these routers promise to set new price / performance bench marks in an industry dominated primarily by imported products. With built-in security features and a fully Indian design, this development is significant in the context of apprehensions expressed by experts about the vulnerabilities posed by 'black box' products, populating the information highways which carry vital and strategic data. With the national data infrastructure set to grow many fold with gigabit pipes slated to enter villages, this development fills a vital gap in the indigenous technology fabric.

The agreement was signed by Prof. Khakkar, Director IIT Bombay and Shri. Y.S. Mayya, Chairman and Managing Director, ECIL at IIT Bombay on 17th August, in the presence of senior officials from IIT Bombay, BARC, NPCIL and ECIL. (Photograph attached)

The core of the router consists of an indigenous technology that facilitates the collapsing of the lower three layers of the Internet – namely the physical, the data-link and the network layer into a single unified networking medium. The patent pending technology takes advantage of the interconnection pattern in networks while adhering to service rendering attributes that are critical to meet the challenges of emerging services. The approach leads to carrier-class features and provides an ultra-fast routing fabric while consuming a fraction of the energy of competitive products – all of which are absolutely essential for the next generation network. This next generation network supports metro transport, data-center, mobile backhaul, carrier class transport and the metro/access market. Three products have been created from this technology: an entry level access switch, a metro/data-center/mobile backhaul transport router and a core OTN/Carrier Ethernet cross-connect.

