



A Furukawa Company

Your Optical Fiber Solutions Partner™

News Release

---

## **OFS AND TRANSMODE FIRST TO DEMONSTRATE COMMERCIAL CWDM FIBER ACCESS SYSTEM WITH B-PON**

### ***Architecture Uses OFS' Access ADVANTAGE™ Fiber to the Home and Business System to Enable Low Cost, Premium Revenue Services***

**SuperComm, Booth # 23729 (OFS) Atlanta, GA, June 3, 2003** - OFS, designer, manufacturer, and supplier of leading edge fiber optic products and Transmode Systems AB, a supplier of Coarse Wavelength Division Multiplexing (CWDM) equipment, have delivered the first commercial demonstration of a 1400 nm band CWDM system overlaid on a Broadband Passive Optical Network (B-PON), operating over AllWave® fiber.

This innovative Fiber-To-The-Subscriber (FTTx) network architecture, which will be on display at SuperComm 2003, combines a B-PON and CWDM E-band network to deliver enhanced video and/or data services to the subscriber. The result is an access network that can deliver B-PON based services to some customers, and premium wavelength services via E-band transmission to others, all on the same network. AllWave Zero Water Peak Fiber is a key component of OFS' Access ADVANTAGE™ System, a complete optical access cabling system that enables cost effective and flexible FTTx networks.

The system will be operating live over an Access ADVANTAGE FTTx cabling system 20 kilometers long, with a typical configuration of splices, connectors, and a 1 x 16 splitter. In booth #23781, an Optical Line Terminal (OLT) transmits streaming MPEG videos at 1490 nm over AllWave fiber to Optical Network Terminals (ONTs): one located in booth #23781 and one located in OFS' booth #23729. Each location receives the video through the ONT and displays it on demand. In addition, one ONT transmits video at 1310 nm back to the PC located at the OLT in booth #23781 to demonstrate the capability of peer-to-peer video networking. The CWDM video services are overlaid on the same AllWave fiber by Transmode CWDM transmission equipment and E-band add/drop multiplexers, adding DVD video transmission at 1390 nm from booth #23781 to the OFS booth, and PC camera live

video at 1370 and 1410 nm from the OFS to booth #23781. All 5 wavelengths supporting the B-PON plus CWDM network operate on a single AllWave fiber for the full 20 km distance.

“B-PON and CWDM are ITU standard compliant architectures, and are attractive to both large scale service providers, such as the RBOC’s and PTTs, and non-traditional service providers such as municipalities, utilities and developers,” said Nick Khoury, President, OFS Optical Fiber Division. “By using the Access ADVANTAGE System with B-PON, providers can support premium services on up to six additional low cost CWDM wavelengths not available with standard single-mode fiber with the water peak defect,” added Khoury.

The Access ADVANTAGE System is a complete optical access passive solution, enabling economical optical connectivity to homes, businesses, and multiple dwelling units (MDUs). It supports all FTTx architectures, including standards and non-standards based Passive Optical Network (PON) and Point-to-Point (P2P) implementations.

OFS’ award winning AllWave fiber is the “standard” OFS single-mode fiber provided in the Access ADVANTAGE System. By completely eliminating the water peak defect, AllWave fiber has the industry’s only zero water peak designation, opening the E-band (1360 – 1480 nm) for revenue generating services such as secure high-speed business data, HDTV broadcast, instant HDTV video on demand, and high-resolution internet video games. E-band CWDM over AllWave fiber helps to lower system costs by reducing laser, packaging, and filter costs, compared to a dense WDM (DWDM) alternative operating over standard SMF. The Access ADVANTAGE System also integrates right-of-way optimized and installer friendly cables, the ultra low loss LC connector, and industry leading splitters and closures, all engineered to work together to provide maximum cost effective optical access performance.

“Simply put, the Access ADVANTAGE System is engineered to enable the lowest cost per bit for revenue generating services during the expected 30 to 40 year life cycle of an access cabling system” said Paul Neuhart, President Optical Cable Division at OFS.

### **About Transmode Systems AB**

Transmode Systems ([www.transmode.com](http://www.transmode.com)) is a CWDM pioneer, with expertise in datacom and telecom networking, optical technologies and network management systems. Since 2000, Transmode has focused on CWDM as a key optical technology to fully exploit the

existing networking protocols. Transmode has been shipping CWDM systems since March 2001 and has today customers on the European, US and Asian markets

## **About OFS**

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTx and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

For more information, please visit [www.ofsoptics.com](http://www.ofsoptics.com).

---

---

## **CONTACT:**

Sherry Salyer

OFS Public Relations

[shsalyer@ofsoptics.com](mailto:shsalyer@ofsoptics.com)

Direct: 770-798-4210

Mobile: 678-296-7034