YOFC
Smart Link Better Life.

GREEN CONVERGENCE

YOFC CREATING GREEN, INTEGRATED, CONVENIENT ALL-OPTICAL INDUSTRAY PARKS

As modern corporate offices become increasingly intelligent and IT-oriented, emerging applications such as high-definition (HD) video conferencing, cloud services, interactive massive data, mobile office, security monitoring, and intelligent manufacturing are imposing increasing network bandwidth requirements in modern industry and technology parks. Data center-centric traffic switching has replaced earlier multi-layer local switching architectures, with service traffic gradually coming to be dominated by North-South traffic. By 2025, 100% of enterprise and 85% of service traffic are expected to be cloud service-related, and conventional industry park networks are likely to be unable to cope with thehuge challenges arising from new services and applications.

Passive Optical LAN (POL) is a brand-new solution that applies passive optical network (PON) technology in industry park networking. Adopting optical fibre as its transmission media, it offers higher bandwidth capacity and longer transmission range, combined with reduced equipment dimensions and weight. Compared with conventional copper networks, POL networks can reduce the costs related to active devices, equipment room space, power distribution and air conditioning. YOFC has undertaken many years of research and innovation in POL technology network architecture, construction and deployment, and in POL technology evolution. These are now embodied in its all-optical industry park solution for green convergence, which is environmentally-friendly, integrated and convenient.

01 ENVIRONMENTALLY-FRIENDLY

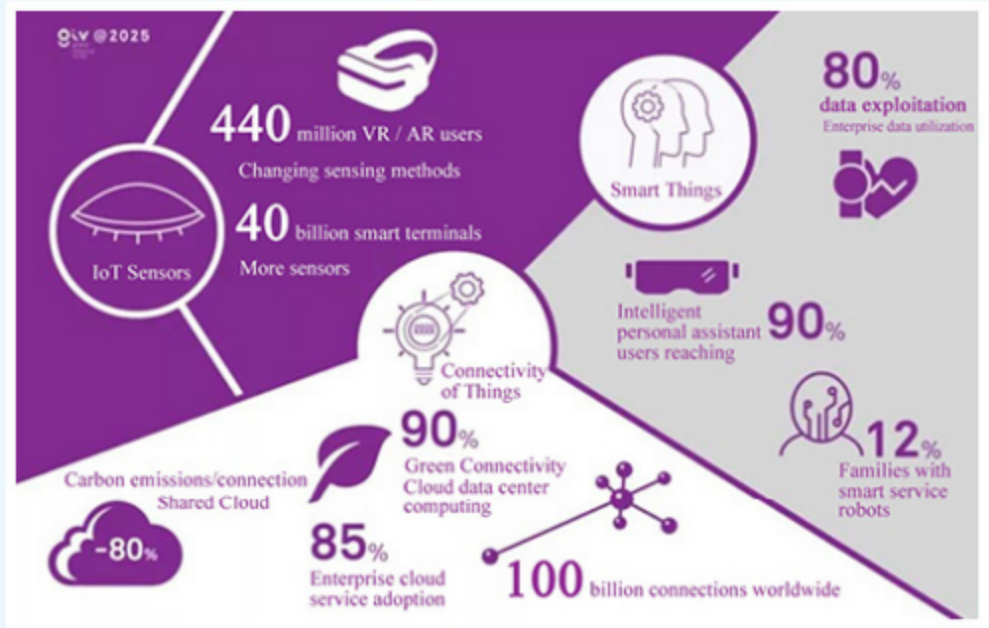
Small-diameter, large-core optical fibres and cables dedicated to industry park use —including air-blown micro cable, bio-protective optical cable, all-dry optical cable, microbundle optical cable, multi-purpose optical cable, bow-type drop optical cable, and HDMI (USB3.0) AOC specialty optical cable—provide ubiquitous connectivity between central equipment rooms and terminals across the industry park, reducing low voltage equipment room and air-conditioning energy consumption by 80%, while decreasing network construction costs by 30%. Optical fibre offers advantages including corrosion resistance, temperature insensitivity, and interference resistance, and is well suited both to fulfilling current network resource requirements and industry parks' long-term sustainable development needs, for wiring that stays worry-free for 30 years.

02 INTEGRATED

Optical distribution and interconnectivity products and optical fibres and cables, in reasonable combination, permit delivery of multiple services over a single fibre. YOFC offers a full range of wring products, for various scenarios from centralequipmentroomto terminal, permitting brand-baseddelivery and management of product and materials, and delivering a 40% improvement in construction and deployment management efficiency. Through optical fibre networking, existing networks can be repurposed easily: when GPON networks require upgrading to bandwidths of 10GPON or 40GPON, only active device boards and terminals need be replaced.

03 CONVENIENT

YOFC's broad range of passive wiring products offers standardized, modular design that increases network deployment efficiency by 40%, allowing fast, easy installation during network construction and deployment. Suited to widely varied customers and scenarios, this range of passive wiring products and solutions makes for rapidly deployed, easily maintained, all-optical networks.



Note: The picture comes from the GIV2025 report

5G the Internet of Things (IoT), AI, AR/VR and other popular technologies are driving new trends in convergence and innovation. According to the GIV2025 report, by 2025, personal intelligent terminals worldwide will reach 40 billion, with 100 billion total connections. Deep integration of massive data from IoT sensors with various industries will spawn numerous interdisciplinary industries including the Industrial IoT, Internet of Vehicles (IoV), smart healthcare, and distance education, creating opportunities for sustained growth and leapfrog development of the industry park economy. On October 23, 2019, together with Huawei, Nokia and other all-optical networking industry leaders, YOFC established the Green Optical Network Technology Alliance. As an important member of this governing unit, YOFC supports exchange and cooperation with manufacturers up and downstream in the optical networking industry chain, promoting creation of "green, integrated, convenient" all-optical industry parks, and enriching the all-optical networking industry's industrial ecosystem.