

Best SME ICT (Adoption) Gold Award 最佳中小企資訊科技（應用）金獎

PLK Dr. Jimmy Wong Chi Ho (Tin Sum Valley) Primary School

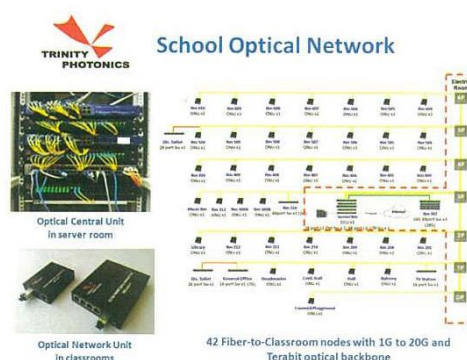
保良局王賜豪（田心谷）小學

Trinity Photonics Manufacturing Co. Ltd.

三仁光學製造有限公司

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School Optical Network

The School Optical Network is a comprehensive network for teaching, learning and administration for local primary and secondary schools. In the network, each classroom would be provided with a two-way 1Gbps-10Gbps bandwidth. The students can enjoy high-definition video broadcasting and the convergence of voice, Internet and Wifi in the same network. The infrastructure is built on an Optical Central Unit and connects to the Optical Network Unit installed in each classroom via main optical fiber and sub-optical fiber. Since the network is deployed in Single Mode Fiber (which has no limitation on bandwidth theoretically), the infrastructure can be used for a long time without the need for re-installation.

校園光纖網絡

校園光纖網絡是為本地中小學在教學、學習和行政管理而設的全方位網絡系統。在這個網絡之內，每個班房會有相向的1Gbps-10Gbps頻寬，學生能在網絡內享用高清影像視頻廣播、聲音、互聯網及無線網絡。網絡的基礎結構建立在「中央光網絡處理中心」，經過主幹光纖及分支光纖直接連接至安裝在班房內的「光網絡單元」，由於網絡採用「單模光纖」作傳輸媒介(理論上沒有頻寬極限)，因此整個網絡架構基本是長期不需更換。

Comments from Judging Panel

Schools have limitation on financial budget and physical environment, but require a flexible network infrastructure to cater for the huge demand for bandwidth in different classrooms for different usages (like campus TV, school administration, etc.). The technical company has used its expertise and experience in Single Mode Fiber to specially design a comprehensive network infrastructure with its own-designed communication devices for the specific requirements. In the co-operation, the school enjoys a stable and long-term solution but at a much affordable price; and the technical company can demonstrate its expertise through a real case for its product's market development.

評審委員會評語

學校受到預算與實際環境等因素的限制，但卻需要具彈性的網絡基礎結構，去迎合不同班房的不同使用要求（如校園電視、學校行政管理等）而引申巨大的頻寬需求。科技公司運用其本身對「單模光纖」的專業知識與經驗，針對學校的特別需求，設計了這套加上自行開發的通訊裝置的全方位網絡基礎結構。在這次的合作中，學校方面能以一個合理的價錢，獲得一個長遠而穩定的解決方案；在科技公司而言，他們能以這實際個案，為產品的市場推廣作為範例，去展示他們的專業技術。