

## NORDX/CDT PROVIDES SPACE SAVING SOLUTION FOR TWI LTD.

### *TWI Ltd. invests in the future with NORDX/CDT's revolutionary GigaBIX Cross-Connect System*

TWI, based at Granta Park in Cambridge, England have re-developed their site resulting in a new high-tech Engineering Hall, which houses their R & D facility. The task that TWI's IT Support Manager faced when the initial planning was underway, was the challenge that the space allocated for the Telecommunications Rooms was extremely limited. NORDX/CDT's CSV Annor Ltd, introduced TWI to the NORDX IBDN GigaBIX System and after a number of meetings and demonstrations TWI prepared and issued an ITT for the new

Engineering Hall specifying a NORDX GigaBIX System. TWI Ltd required a voice and data cabling infrastructure system that would meet and exceed the proposed Category 6 standard and optimise the limited space that was available for the installation. NORDX/CDT's Cross-Connect GigaBIX System was the only solution that could optimise the space available.

In the past TWI Ltd had only ever used the traditional RJ45 patch panel solution mounted within large com-

munication enclosures and connected with RJ45 patch cords. However TWI's IT Support Manager, Matthew Butler, found this method of connectivity an inefficient use of space and extremely time consuming when trying to make any moves and changes and looked for a more efficient solution.



## *The Installation*

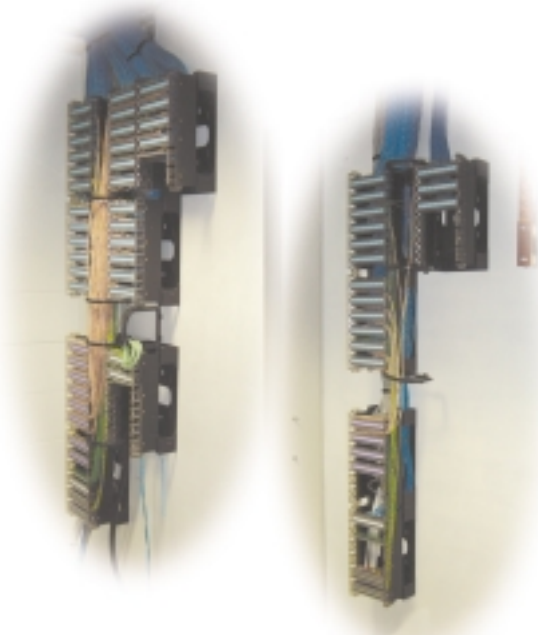
The system installed in TWI's Engineering Hall is NORDX/CDT's IBDN 4812LX Beyond Cat6 TM with a GigaBIX Cross-Connect Wire solution. The Engineering Hall is split into a North and a South side. Each side has a dedicated Telecommunications Room referred to in future as N/TR and S/TR. The installation consists of 518# Cat6+ RJ45 UTP telecommunication outlets split between the two Telecommunication Rooms, 180# T/Os to the N/TR and 338# to the S/TR. In each TR the GigaBIX frames are wall mounted on GigaBIX cable management modules screwed to a plywood sheet secured to the TR wall. The 4812LX UTP cable is star wired to each T/O location in the factory floor and is supported throughout its entire length on basket tray and each cable is fed into steel conduit and back boxes. The outlets terminate onto GigaFlex PS6+ Modules and are mounted into 6C angle shutters and single gang dual faceplates. Within the open office area the 4812LX UTP cables are installed in groups of 4# cables in a grid system above the false ceiling on basket tray. The #4 UTP cables are mounted within 8-way RJ45

modules with a 4m umbilical cord protected with braided sleeve. The open office area has 66 #4-way RJ45 data modules presented in total.

The N/TR and S/TR are linked together with a 12 core 62.5/125 MM graded fibre and 6-cores are presented on a 19" 1U rack mounted fibre patch panel loaded with SC Duplex adaptor strips. The remaining 6-cores is left dark at each end. The S/TR also has a 12-core 62.5/125 MM graded fibre cable linking the existing equipment room located in Building 4 to the Engineering Hall via under ground duct route. Again 6-cores are presented on SC Duplex patch panels.

To link the existing telephone system to the North and South TRs a 100pr int/ext multipair copper cable has

been installed from Building 4 PBX TJF to the S/TR and terminated onto 25pr BIX wavers at one end and 237A blocks on the TJF. From the S/TR 4# 25pr Cat3 multipair cables (100pr in total) were installed to the N/TR. Both ends are terminated onto 25pr BIX wavers. In addition to the fibre backbone between TRs 12# 4812LX UTP 4pr cables have been installed to provide a resilient link between TRs. Within each TR 1# 7ft x 19"x 3" open racks has been secured in place and PS6 RJ45 modular links have been installed between the racks and the GigaBIX frame. The rack houses the LAN hardware and from each RJ45 port on the Hubs PS6 cords run into the GigaBIX frame and are terminated onto 6 port connectors. This allows for the LAN connectivity to be cross-connected with 4pr cross connect wire to the user horizontal cabling.



# IBDN *Success Stories*

## *Industry Leading Warranty:*

TWI now have an Engineering Hall that is equipped with a Beyond Cat6™ cabling infrastructure. They also benefit from the “Best in Industry” warranty as all IBDN components for TWI’s certified structured cabling system are covered by the industry’s leading certification program. The IBDN Certification Program offers an unmatched warranty of 25 years on parts and labour from the date of installation. These components are warranted to meet or exceed the specifications of standards organisations including ISO/IEC CENELEC and TIA/EIA for the category of IBDN system installed. To further protect their installation against technical obsolescence, NORDX/CDT offers an exclusive Lifetime Assurance Warranty. This means that the IBDN Certified Structured Cabling System is guaranteed to operate the applications which the system was originally designed to support, as well as any new applications, for as long as TWI owns the system and its original place of installation.



The installation, which was completed in March 2002, was installed by NORDX/CDT’s CSV Annor Ltd.. Annor Ltd. provides space optimised cabling solutions by designing and installing the NORDX/CDT IBDN GigaBIX Cross-Connect System for all their clients.

# IBDN *Success Stories*



## **Superior Network Performance**

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**Organization**  
TWI LTD.

**Location**  
Cambridge, England

**Vertical Market**  
Technology

**Number of Sites/Buildings**  
1

**Cabling System**  
IBDN System 4800LX  
GigaBIX Cross-Connect System

For more information about NORDX/CDT Structured Cabling Systems visit us on the web at [www.nordx.com](http://www.nordx.com) or contact the NORDX/CDT office in your area.  
[www.annor.net](http://www.annor.net)