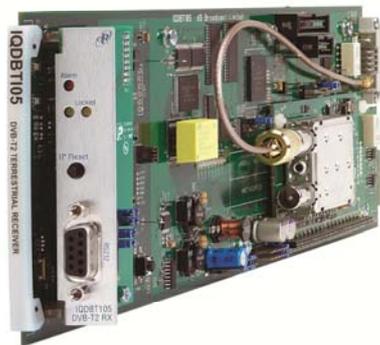


Market Demands Drive Product Innovations at dB Broadcast

As a leading systems integrator, dB Broadcast works on cutting edge problems for signal acquisition and monitoring, and the insight gained helps it to develop its standard product range in response to changing market and customer demands. The arrival of DVB-T2 has led to innovative new solutions such as the IQDBT105 – the latest in the Hawkeye monitoring receiver range. This unit is capable of continuous off-air demodulation and monitoring of both DVB-T2 and DVB-T signals, providing a future-proof solution for those looking ahead to the possibility of DVB-T2 networks. The IQDBT105 is designed in a modular package and eight modules can be fitted in a 3RU rack space.



At IBC2014 dB is launching the Hawkeye IQASI25 low cost ASI switched distribution amplifier module for continuously monitoring two MPEG-2 DVB ASI Transport streams (TS) and automatically switching the five outputs. The module monitors various critical levels within the transport stream and the user defines



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which of these will effect switching and the alarms. These include the monitoring of catastrophic failures such as loss of carrier, no TS, loss of synchronisation and PAT loss. 16 modules can be fitted in a 3RU frame. Both of these new products are fully integrated into the Snell IQ Modular range and the RollCall Monitoring and Control system.

The MERlin monitoring receiver is also designed for the demands of DVB-T2 and a large number of MERlin units are already deployed throughout the UK transmission network. It occupies only 1RU space and monitors input RF modulation parameters and signal performance metrics including Modulation Error Ratio (MER) and Low Density Parity Check (LDPC) status.

Another market trend that can cause broadcasters unexpected problems is the high inrush current associated with some modern high efficiency switched mode PSUs, which can be as high as 200A. dB's latest Cardinal mains distribution unit incorporates circuitry to limit inrush current to 60A per individually switched output in order to protect sensitive rack equipment.



The Cardinal supports 12 individually switched mains outputs, and provides features such as an intuitive web-based user interface to remotely configure and control outputs, SNMP traps and e-mail messaging that can send alerts when faults occur, including loss of supply power and blown fuses. The units have an



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error log to record events, GPIO handling and an optional external temperature and humidity sensor to monitor environmental conditions in the equipment rack.

The new Cardinal iMDU range is a great choice for system managers wanting to make sure their installations are ready for the demands made by current and future equipment.

dB Broadcast believes that developing bespoke products should not mean compromising on quality and reliability. The company's approach to tackling difficult technical requirements is to regard it as part of the service, and the way to build long-term relationships.

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