2wcom's 'Absolute SAT or IP Flexibility'

2wcom's Satellite product range offers flexibility, reliability for the entire radio-signal transmission chain. All devices are equipped with interfaces for SAT and IP/ASI to switch automatically to the best signal source available in case of failure.

Since all common codec algorithms are supported, this homogeneous solution enables broadcasters to distribute a radio programme nationwide and at the same time to schedule and transmit regional programme content, advertisement or RDS data.

The MM08E MPEG encoder offers scalability from one to eight audio channels that can be changed *via* a simple option key upload. The device encodes all common audio algorithms (EaptX, AAC, MPEG I/II Layer 2/3, PCM). Additionally, the MM08E can generate multiple independent streams.

Transmission of ancillary and private data (PAD, RDS, *etc.*), as well as switching contact information (GPIO) can be forwarded *via* integrated interfaces.

Two redundant and hot pluggable power allows easy device maintenance without service interruption. With two physically separated network interfaces and the Dual Streaming feature this device can provide a rock-solid IP transmission, especially when paired with a Pro-MPEG FEC. The whole package is rounded out by offering functions for control (HTTP, Telnet, NMS and SNMP) and monitoring features.

FlexDSR02+ and FlexDSR04+ professional IRD Satellite Receivers are well-known for broadcasting of local content, diverse back-up solutions and comprehensive functionalities regarding monitoring applications. The long-established IRD SAT Receivers are equipped with state-of-the art technology. It is possible to handle transport streams *via* satellite (DVB-S/S2), ASI input and IP, while also managing elementary audio streams and Icecast streams *via* IP.

Processing all common coding algorithms like E-aptX, AAC, MPEG I/II Layer 2/3 or PCM, the multipurpose devices include a sophisticated concept for audio quality and redundancy options. Both receivers offer fall back options by automatically detecting and switching over to the best signal source available. Furthermore, FlexDSR02+ offers the option of a dual tuner for simultaneous reception of two transponders.

eSIRC Server (enhanced Satellite Inband Remote Control) provides remote control of hybrid IP/SAT networks. The web-based software eSIRC Server is suitable for regional broadcasting, quality control and management of local audio content, jingles, schedule and firmware files. Operators are able to access the eSIRC management system *via* web interface from any computer within the network for uploading data files to the internal memory of MM08E Encoders, DSR01 receivers and FlexDSR02+/04+ receivers.

The content provided by eSIRC can be processed immediately and without delay or can be scheduled for processing. For each SD card installed in the receivers, there is a separate directory on the eSIRC server, into which all distributed files are written as a fall back. ∎

2wcom MM08E MPEG encoder

Singtel's Singapore Teleports Achieve Full WTA Certification

The World Teleport Association (WTA) recently announced that Singtel (Singapore Telecommunications Limited) has achieved Tier full certification of its BukitTimah (Tier 4) and Seletar (Tier 4) teleports under WTA's Teleport Certification Program. They become the first teleports in southeast Asia to achieve full certification and bring the number of fully-certified teleports around the world to 23.

"We are delighted to be awarded the coveted Tier-4 WTA certification for our teleports in Bukit Timah and Seletar," said Mr Ng Kheng Ghee, Head of Satellite at Singtel. "This achievement underscores our commitment to providing our customers the highest quality of security, infrastructure and operational standards to meet their communications needs. The certification will spur us to constantly deliver the best managed satellite solutions to our customers across

Mr Ng Kheng Ghee, Head of Satellite at Singtel

Asia, Middle East and Africa, offering them reliable satellite connectivity and secured managed ICT solutions."

Since its introduction at IBC2015, the Certification program has quickly grown in popularity. Starting with one certified facility in 2015, the program has added more than 40 in three years, and currently has 10 teleports engaged in the quality evaluation process. Certifications have been issued to teleports operated by Eutelsat, du, COMSAT, Signalhorn, Optus, Globecomm, Horizon, Media Broadcast, Elara Comunicaciones, GlobalSat, Talia, Telenor, Vivacom, Cyta, Batelco, Singtel, CETel, Etisalat, Hawaii Pacific Teleport, Intelsat, Speedcast, Telstra, AXESAT, Telespazio and Arqiva. The industry has quickly adopted the transparent, independently verified standards as a means for teleports to differentiate themselves and for customers to choose the price-performance level suitable for their applications.

Full Certification under the WTA program is the result of a comprehensive data-collection and inspection process. A teleport operator completes a +170-item questionnaire and submits it to WTA. The Association analyses the data based on standards established by its Certification Committee and issues the Provisional Certification based on the self-reported information. The teleport then has six months to achieve Full Certification.

To achieve Full Certification under WTA's program, an auditor is dispatched to visit the teleport, provide independent validation of the data submitted in the questionnaire, and identify additional factors that may positively or negatively affect the score. Full Certification is issued at a Tier number from 1 through 4, of which 4 represents the highest degree of excellence, and remains in effect for three years.

Singtel is Asia's leading communications technology group, providing a portfolio of services from next-generation communication, technology services to infotainment to both consumers and businesses. ∎