OSA 5530B SDU

Economic approach to the distribution of synchronisation reference to newtork elements

The explosion in demand for telecommunications services has resulted in the implementation of complex networks.

These often contain a large number of network elements, all of which must be synchronised to ensure that the quality of service meets the international standards and the demands of network users.

Very often, extra output capacity is required at the network nodes to synchronise all its elements and it is thus necessary to implement expansion equipment. To meet this requirement, Oscilloquartz has introduced the synchronisation distribution unit OSA 5533C and OSA 5530B SDU.

The Synchronisation Distribution Unit OSA 5530B SDU is designed primarily to extend the output capacity of our synchronisation systems such as OSA 6500B PRC, and OSA 5548B SASE. It can also be used in stand-alone applications where a stable reference is available. The unit provides distribution of synchronisation references to network elements, e.g. switches, cross-connects and multiplexers.

The OSA 5530B SDU's protected front-end accepts two external synchronisation reference inputs at 2.048 MHz and provides up to 96 1+1 protected or unprotected synchronisation outputs, which are referenced to the selected synchronisation input. Should the selected input fail, the unit will automatically switch to the secondary synchronisation input.

Output phase coherence after changeover operations is maintained well below 1/8U1 (6ns), typically 5ns. This is important for SDH/SONET networks that are more sensitive to phase variations. Switchover is normally made automatically. Manual switching is done via RS232.

The OSA 5530B also includes redundant output ports to drive further SDUs.

The equipment communicates with a local terminal or a Personal Computer (PC) for alarm reporting and equipment control. When used in conjuction with an OSA 5548B, the unit can be managed by the SyncView™ synchronisation network management system for alarm reporting and control functions.

Highlights :

- ➢ Two inputs
- ➢ Up to 96 1+1 protected or unprotected outputs
- ➢ Wide choice of output interfaces
- ➢ Modular approach
- ➢ ETSI or 19" rack mount versions
- ➢ SyncView™ network management
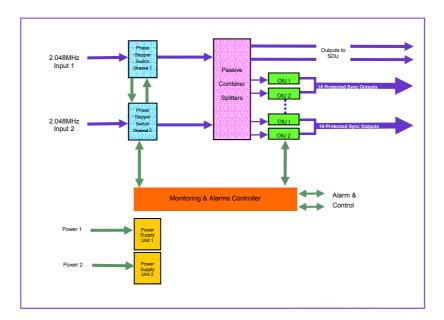- ➢ Totally maintenance-free

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Technical specifications OSA 5530B

Physical dimensions (HxWxD) : ➢ ETSI: 9U (399 x 535 x 265) mm ➢ 19" : 6U (266 x 483 x 265) mm	**Input signals :** ➢ 2.048 MHz 0,5 Vrms/50Ω or G.703-10/75Ω via external adapter
Power : ➢ 36 to 72 VDC floating input ➢ 115 ± 15% VAC 47 to 440 Hz ➢ 230 ± 15% VAC 47 to 440 Hz	**Output signals :** ➢ 2.048 MHz ➢ 2.048 Mbit/s ➢ 1.544 Mbit/s ➢ 64Kbit/s CC ➢ 10 MHz ➢ 5 MHz
Output card protection : ➢ 96 outputs, optionally protected	**Management :** ➢ The equipment can be managed locally via OSA Local Manager software (LM) or remotely via SyncView™, Oscilloquartz's professional Network Management System (connection to SyncView is obtained through OSA 5548B SASE).
Phase after input changeover : ➢ <6ns, typically 5ns	

Schematic of OSA 5530B illustrating functional blocks.

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