



S.G. INTERNATIONAL GROUP H.K. LIMITED

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➤ SDH (Trams Mission Device)



With the developing of technology, optical transmission has more and more sharing in the transmission systems. For the unique node interface (NNI), flexible data upload and download, abundant network management, SDH has been widely applied in the net- working nowadays. However, PDH still has large share in domestic market for its low price. Using PDH equipments may bring difficulties in developing for its bad interconnections and insufficient expanding capability.

3A-NET 155/622 transmission system is brought out to domestic users based on the study of market. The system adopts the latest technologies in structure, circuit, component and techniques and reaches the technical level of the same kind of equipments in the world. The simplified optical transmission equipment can provide 21 interfaces for E1 access at the price similar to 34M PDH, with good expandable capability and up to 2×155M access capability.

SG 3A-NET 155/622 also provides Ethernet over SDH to make it conveniently for users to build broadband network based on SDH.

3A-NET 155/622 will replace PDH optical transmission equipments completely to make it possible to build high quality network with low cost.

■ COMPONENTS

● 3A-NET 155/622A Optical Transmission Equipments

In a 19', 2U frame, provide a set of 3A-NET 155/622A Optical Transmission Equipments, including one 155/622 aggregate card, two tributary cards (each with 21 E1)/155M optical tributary card/Ethernet Card (4 10/100BASE-Tx or 1 100BASE-Fx). The price is similar to 34M PDH when only one 155 aggregate card and one tributary card are mounted. Three intelligent PCM cards can be mounted at the right side the frame.

● 3A-NET 155/622B

In a 19', 7U frame provide three sets of 155/622 transmission systems, including two aggregate cards, three tributary cards/Ethernet cards. Provide up to 63 lines of E1.

● 3A-NET 155/622C

In a 19', 7U frame provide a set of 3A-NET 155/622C system, including two agg- regatta cards, two cross cards, twelve tributary cards/Ethernet cards. Provide up to 252 lines of E1 access.



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■ FEATURES

- Considering the requirements of the present networking and in the future, the system has good price/performance to avoid wasting of resources. The system can meet the demands of various layer of networking with flexible design and configuration, good compatibility. Easy for users to upgrade.
- Provide access and transmission functions to Ethernet services. Point to point transmission to ensure the transparent transmission of services.
- Provide dynamical bandwidth management of Ethernet services and the assignment function to mapping to SDH virtual container (N × VC12 or N × VC3) .
- The SDH transmission between the sub-node in the same subnet sharing the bandwidth when transmitting Ethernet services to save the SDH transmission bandwidth.
- Provide two 622M or 155M 2/4 fiber loop. Tributary provide 622M or 155M loop networking capability. Advanced ADM design meets the requirements of complex networking in line, loop and mesh.
- The design policy of full compatible of 155M and 622M. Users only need to change the interface unit to upgrade from 155M to 622M. Different equipments are compatible completely. The same element can be configured to TM, REG, and ADM mode. Online upgrade the TM to ADM, REG and ADM by adding interface units.
- Tributary provides PDH and SDH interfaces at various rates of 2M and 155M.
- By advanced clock technology based on stat forecasting, the system removes the pointer jitter and shift to solve the SDH pointer adjustment jitter. The mapping jitter and combined jitter precede the recommended value of G.783. The system can transmit base station services, No.7 signaling, data services, image services at high quality. Support 2 lines of clock and 1 line of branch clock, and 1 line of external clock.
- Applied service protection solutions ensure the transmission of traffics.

