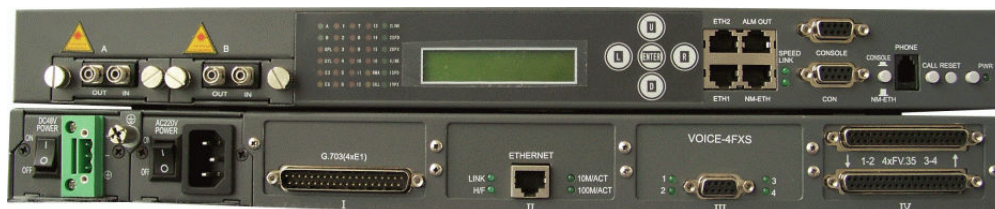


**AN-FM-600**  
SNMP & LCD panel  
managed multiservice  
multiplexer



**Overview**

SNMP managed, LCD console equipped, carrier class double 155 Mbit/s fiber optical multiplexer with modular service cards approach: n x E1, n x V.35. n x Ethernet at your choice.

**AN-FM-600 Modular Integrated Transmission Multiplexer** can provide full speed 100Mbps fast Ethernet (FE) interface in accordant with IEEE802.3 and E1 interface complying with 16-channel standard. At the same time, it also provides sufficient network management interface function and realizes SNMP network management or device management via hyper terminal. The device itself is supplied with a LCD displayer for user to carry out configuration and management.

The whole system adopts modularized structure. 16 channels of 2M services are divided into four modular slots, with four channels for each. Different interface modules can be applied based on networking requirements of different users, and different user requirements for application environment and business growth can be met through addition or replacement of interface modules. The equipment can cater to the network application of general scale.

AN-FM-600 multiplexer provides double 155Mbit/s optical interfaces and sixteen 2048 Kbit/s channels. The 16 channels are distributed to 4 ports, each port supports 4x2048 Kbit/s channels. The 4 ports can be deployed as either 4xV.35 or 4xE1 or modules. And a 10/100Base\_T transparent Ethernet channel is provided as well. All the modules are removable and hot swappable. With high-integrated design and advanced technology, this equipment runs with its superior quality and reliable performance.

**Modular integrated transmission optical multiplexer** is created with optical path interoperability, flexible structure and modular design. Its function modules are independent of each other but easy for assembly, which enables it to derive a series of optical multiplexer products with multi-service interfaces. The equipment is furnished with four modular slots. According to the networking requirements of different users, various kinds of interface modules can be employed. Users can also add or replace interface modules to accommodate to the requirements of different application environments to protect their existing investment. Meantime, the equipment allows users to activate expandable interfaces to adjust the scale of network interfaces based on business growth, so as to help realize real-time follow up of network to business.

Following example configuration can be made at your convenience, though, you can feel free to experiment at your own choice:

- 4 x G.703 E1 Interface Card;
- Dual V.35 Interface Card;
- 4-Channel V.35 Interface Card;
- FXO/FXS Voice Channel Interface Card;
- RS232 Interface Card;
- RS422/RS485 Interface Card;

Unit comes together with a sophisticated network management system, supporting SNMP management through the SNMP agent. The MIB offered together with the SNMP module enables the management through operator's existing

SNMP software.

Network management Unit is designed to control all settings on the control panel and to realize communications between multiplexer and computer. The unit can send commands (such as alarm-off, remote bypass loop-back and so on) to nodes through computer. Users can directly query and set the status of a pair of devices with Hypber Terminal software Via RS232 crosswire. NM-ETH interface (10/100M auto-negotiating, to be configured) can be directly connected with a computer via a crosswire or with a HUB via a straight-through wire to fulfill management. It can realize ALS (Automatic Laser Shutdown/Automatic Laser Reduction) to prevent personnel from fiber injury. The user can select network management functions according to its actual requirements.

## Features

- 1+1 optical interfaces, protection, switching without traffic affection
- **LCD display** for initial configuration and monitoring
- SNMP MIB support
- All traffic modules movable and easy to be replaced
- Hot-swap supported for stable service
- Power fed by both AC220V/AC110V and DC48V power supplies or either of them (1+1)
- Network management through **LCD** or PC NMS system over 10BaseT port
- Mean Time Before Failure (MTBF)≥87600 hrs
- LED indicators for status and alarm monitoring
- EMC standard: EN55022
- **Web manager** for remote configuration and monitoring

## Specifications

### Optical interface

**Code rate:** 155Mbit/s

**Transmission Medium:** G.652 optical fiber support

**Wavelength:** 1310nm (1550nm optional)

**Transmission power:** ≥-3~-15dBm

**Receive sensitivity:** -38~-44dBm

**Link Budget:** At least 25 dB at BER  $10^{-10}$

**Fiber connector:** FC/SC

**Light source:** Laser, pin Diode

Distances and fiber types at your choice, from 2 Km Multimode, to 20 / 40 / 60 / 60 / 80 / 120 km single mode dual, or single fiber WDM versions.

### 4×V.35 card



4 channels of V.35 interface available

Interface Electric Level: In compliance with CCITT V.35 standard

Physical Interface: DB25

Speed of Interface: N\*64Kbit/s

### 2×V.35 card



Two channels of V.35 interface available  
Interface Electric Level: In compliance with CCITT V.35 standard  
Physical Interface: DB25  
Interface Bit Rate: 2.048Mbit/s

10/100 BaseT Ethernet ports (on board)

**Specification:** Complying IEEE802.3 standard  
**Port amount:** 2  
**Transmission rate & real application bandwidth:** 100 Mbit/s  
**Applied Ethernet rate:** 10/100Base-T auto sensing  
**Operation mode:** Half/full duplex auto adaptation  
**Physical connector:** RJ-45

### E1 interface card



**Code pattern:** HDB3  
**Bit rate:** 2.048Mbit/s  
**Waveform:** ITU-T G.703 correspondent  
**Jitter Performance:** Confirming ITU-T G.823  
**Input/output impedance:** 75Ω unbalanced or RJ-45 120 ohm balanced available via adapter  
**Channel quantity:** 4 E1 per card  
**Physical Connector:** DB37 (RJ-45 or BNC - free adapter supplied)

### FXO/FXS Voice Channel Interface Card



**Physical interface:** RJ45  
**FXO interface card:** provides 4-channel or 8-channel FXO interface connected with PABX or phone switch.  
**FXS interface card:** to provide 4-channel or 8-channel FXS interface connected with ordinary telephone sets.  
Supports display of incoming calls  
Supports billing function of inverted polarity

### RS232 Interface Card and RS422/RS485 Interface Card



**Physical interface:** RJ45  
**Four RS232 or RS-422/385 transmission channels available**  
**Transmission Speed** 110~115.2K bps  
**Transmitting Mode:** full/half duplex

NMS Interface

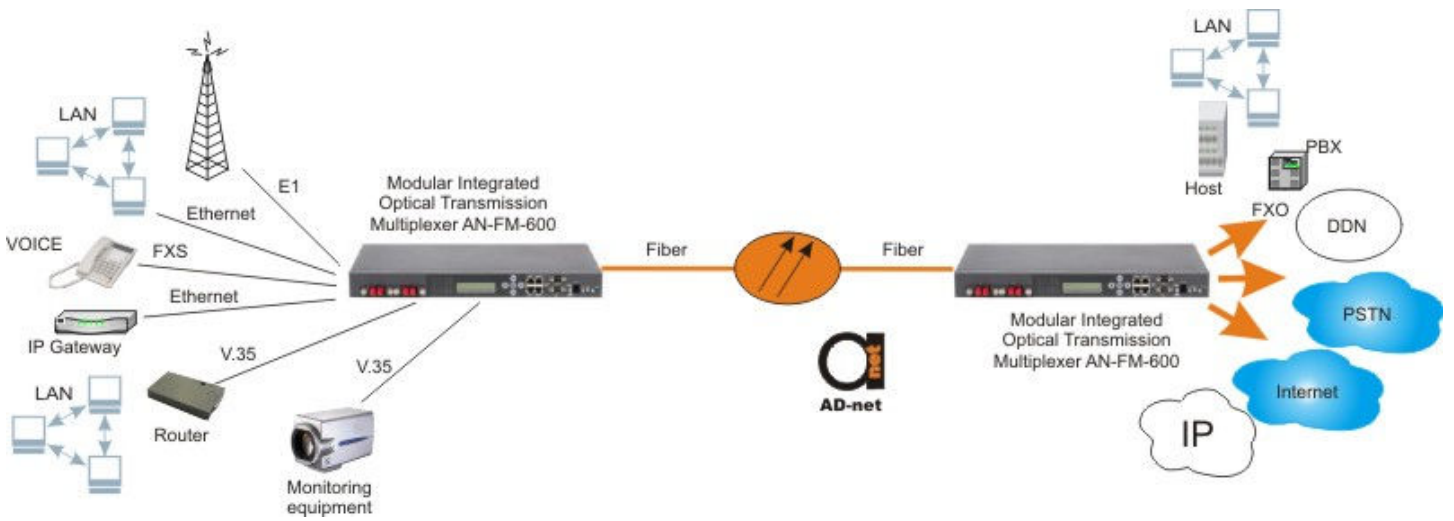
**Interface type:** Ethernet/Serial port  
**Transmission rate:** 10/100M  
**Physical connector:** RJ-45

Physical and Environmental Specifications

Power supply: Either AC220V or DC-48V  
 Power modes: AC and DC feeding synchronously, or either of them

Dimensions: 45mm (H) ×483mm (W) ×250mm (D)  
 Gross Weight: ≤7Kg

**Typical application**



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**Quality Link Connections**

