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**NETWORK CONNECTION SPECIFICATION
FOR CONNECTION OF
CUSTOMER PREMISES EQUIPMENT (CPE) TO THE
PUBLIC TELECOMMUNICATIONS NETWORKS
IN HONG KONG USING SPLITTERLESS
ASYMMETRIC DIGITAL SUBSCRIBER LINES (ADSL)
BASED ON ITU-T RECOMMENDATION G.992.2**



TELECOMMUNICATIONS AUTHORITY
HONG KONG

FOREWORD

1. This specification is issued pursuant to Section 32D of the Telecommunications Ordinance (Cap. 106). This specification sets out the technical requirements for connection of customer premises equipment (CPE) to the PTNs in Hong Kong using asymmetric digital subscriber lines (ADSL) based on ITU-T Recommendation G.992.2.
2. ADSL may be provided by any one of the FTNS operators in Hong Kong. Supplementary information on network characteristics and services of the FTNS networks may be obtained direct from the operators. Contact information of the FTNS operators can be found in the information note OFTA I 412.
3. At present, the Office of the Telecommunications Authority (OFTA) operates a **Hong Kong Telecommunications Equipment Evaluation and Certification (“HKTEC”)** scheme. Details of the scheme can be found in the information note OFTA I 421. Under the scheme, suppliers or manufacturers may apply to OFTA for certification of their customer premises equipment against this specification. The application procedures for certification of customer premises equipment can be found in the information note OFTA I 412. A prescribed label may be affixed to the equipment which has been certified by the Telecommunications Authority (TA). Details of the labelling arrangement can be found in the Standardisation Guide HKTA 3211.
4. The TA may amend any part of this specification as and when he deems necessary.
5. In case of doubt about the interpretation of this specification, the methods of carrying out the test and the validity of statements made by the manufacturers of the equipment, the decision of the TA shall be final.
6. The TA accepts no responsibility for the satisfactory performance of the CPE connected to the public telecommunications networks. The CPE is not normally evaluated against performance, reliability or quality-of-service parameters.
7. The HKTA specifications and information notes issued by the TA can be obtained through one of the following methods:-
 - Downloading direct through the OFTA’s Internet Home Page. The Home Page address is <http://www.ofta.gov.hk>;
 - Making a request for hard copies to:-

Senior Telecommunications Engineer
Standards Section
Office of the Telecommunications Authority
29/F Wu Chung House
213 Queen’s Road East
Wanchai
Hong Kong

Fax: +852 2838 5004

Email: standards@ofta.gov.hk

8. Enquiries about this specification may be directed to:-

Senior Telecommunications Engineer
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AMENDMENT TABLE

Item	Issue No.	Paragraph	Descriptions
1.	Issue 2	Foreword	Certification and labelling requirements are updated.

CONTENTS

- 1. SCOPE**
- 2. ELECTRICAL SAFETY**
- 3. INTERCONNECT POINT**
- 4. INTERFACE ELECTRICAL REQUIREMENTS**
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1. SCOPE

This specification stipulates the minimum technical requirements for connection of customer premises equipment (CPE) to the public telecommunications networks (PTNs) in Hong Kong using asymmetric digital subscriber lines (ADSL) based on ITU-T Recommendation G.992.2.

2. ELECTRICAL SAFETY

2.1 PRINCIPLE OF PROTECTION

In order to safeguard operating personnel, users, and plant, it is essential to prevent the transmission of excessive voltages from the CPE into the PTNs in Hong Kong.

2.2 SAFETY REQUIREMENTS

The CPE shall comply with the HKTA 2001 specification entitled “Compliance Test Specification Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks in Hong Kong” issued by the Telecommunications Authority (TA).

3. INTERCONNECT POINT

3.1 ADSL may be provided by one or more Fixed Telecommunication Network Services (FTNS) operators (hereafter referred to as the “network operators”) in Hong Kong.

3.2 The interconnect point (IP) marks the division of responsibility between the network operator and the customer (see Figure 1).

3.3 The network operators should provide RJ-45 type sockets for connection, disconnection or re-connection of CPE to the IP. The customer shall be responsible for connection and disconnection of the CPE at the IP.

Note: The network operators may supply other optional types of sockets to meet the service demand of customers.

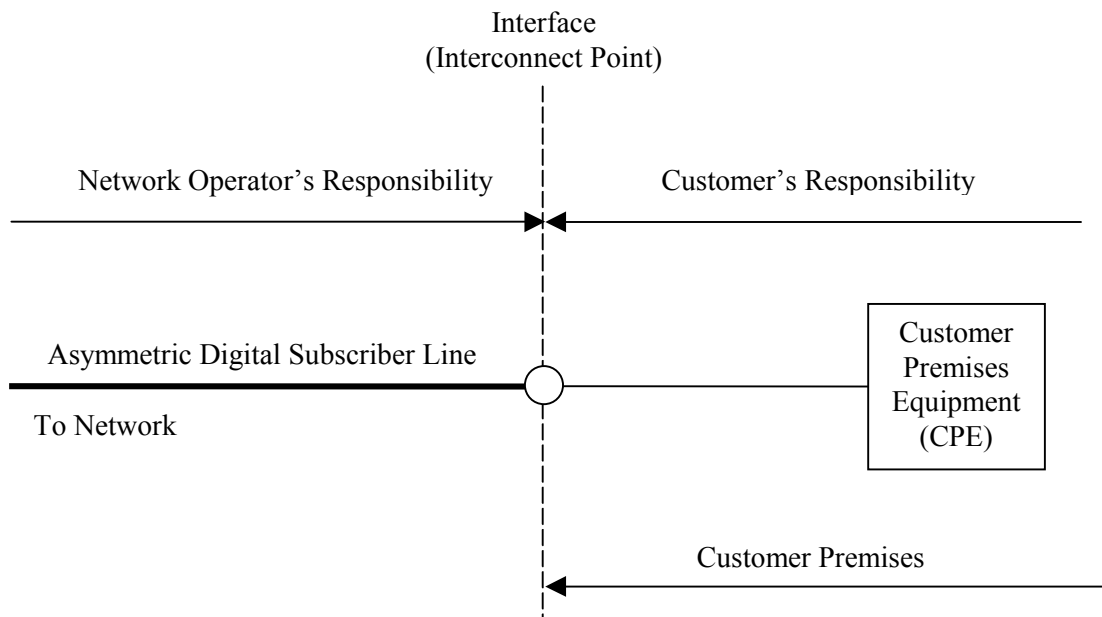


Figure 1 - Interconnection of CPE with ADSL interface to the PTN at the IP

4. INTERFACE ELECTRICAL REQUIREMENTS

The interface of the CPE shall comply with the requirements of ITU-T Recommendation G.992.2 “Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers”.

5. REFERENCE

- 5.1 HKTA 2001 “Safety and Electrical Protection Requirements for Subscriber Equipment Connected to The Public Switched Telephone Network (PSTN) in Hong Kong” issued by the Telecommunications Authority
- 5.2 HKTA 3201 “Standardisation Procedure for Telecommunications Standards and Related Policies” issued by the Telecommunications Authority
- 5.3 ITU-T Recommendation G.992.2 “Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers”

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