

**TRADE AND INDUSTRY DEPARTMENT
TELECOMMUNICATIONS QUESTIONNAIRE**

SC050 (2021/09)

Name of the
Brand Owner: _____

Brand Name & Model of equipment: _____

(use separate questionnaires for different models)

Complete all questions. If not applicable state N/A.

5A1 SYSTEMS, EQUIPMENT AND COMPONENTS

Does the system contain the following equipment or exceed any of the limits below?

If yes, please provide details and technical literature in that particular respect.

| | Yes | No |
|---|--------------------------|--------------------------|
| 5A001(a) Telecommunications equipment having any of the following characteristics, functions or features: | <input type="checkbox"/> | <input type="checkbox"/> |
| (1) Specially designed to withstand transitory electronic effects or electro-magnetic pulse effects, both arising from a nuclear explosion; | <input type="checkbox"/> | <input type="checkbox"/> |
| (2) Specially hardened to withstand gamma, neutron or ion radiation; | <input type="checkbox"/> | <input type="checkbox"/> |
| (3) Specially designed to operate below 218 K (-55°C); | <input type="checkbox"/> | <input type="checkbox"/> |
| (4) Specially designed to operate above 397 K (124°C); | <input type="checkbox"/> | <input type="checkbox"/> |
| Note: 1. The product is an electronic equipment | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. The equipment is designed or modified for use on board satellites | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001(b) Telecommunications Systems and Equipment, and specially designed components and accessories therefor | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001(b)(1) Underwater untethered communications systems having : | | |
| (a) Acoustic carrier frequency outside the range from 20kHz to 60 (kHz), please specify: _____ (kHz); | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) Electromagnetic carrier frequency below 30kHz, please specify: _____ (kHz); | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) Using electronic beam steering techniques; | <input type="checkbox"/> | <input type="checkbox"/> |
| (d) Using "lasers" or light-emitting diodes (LEDs), with an output wavelength greater than 400 nm and less than 700 nm, in a "local area network" | <input type="checkbox"/> | <input type="checkbox"/> |
| Please specify the output wavelength: _____ (nm) | | |
| 5A001(b)(2) Radio equipment operating in the 1.5 MHz and 87.5 MHz band, if 'NO', please specify the operating frequency band: _____, | <input type="checkbox"/> | <input type="checkbox"/> |
| having the following characteristics : | | |
| (a) Automatically predicting and selecting frequencies and "total digital transfer rates" per channel to optimize the transmission; | <input type="checkbox"/> | <input type="checkbox"/> |

- (b) Incorporating a linear power amplifier configuration having a capability to support multiple signals simultaneously. If 'YES', please specify the:
- (i) Output power : _____(kW);
 - (ii) Frequency range : _____(MHz);
 - (iii) "Instantaneous bandwidth" of one octave or more and with an output harmonic and distortion content of better than -80 dB.
- Please specify : _____ (dB)

- 5A001(b)(3) Radio equipment employing "spread spectrum" techniques, including "frequency hopping" techniques, having :
- (a) User programmable spreading codes;
 - (b) (i) Total transmitted bandwidth : _____(kHz)
 - (ii) The bandwidth of any one information channel: _____(kHz)
- Note: The radio equipment is specially designed for use with :
- (i) civil cellular radio-communications systems
 - (ii) fixed or mobile satellite earth stations for commercial civil telecommunications

Note: The equipment is designed to operate at an output power of 1.0 Watt or less

- 5A001(b)(4) Radio equipment employing ultra-wideband modulation techniques, having user programmable channelizing codes, scrambling codes or network identification codes, having
- (a) bandwidth _____ (MHz)
 - (b) "fractional bandwidth" _____ (%)

- 5A001(b)(5) Digitally controlled radio receivers having :
- (a) Number of channels _____;
 - (b) "Channel switching time" _____ (ms);
 - (c) Automatically searching or scanning of a part of the electromagnetic spectrum;
 - (d) Identification of the received signals or the type of transmitter.

Note: Radio equipment specially designed for use with civil cellular radiocommunications systems

- 5A001(b)(6) Employing functions of digital "signal processing" to provide 'voice coding' output at rates of less than 700 bit/s
Please specify output rates: _____(bit/s)

- 5A001(c) Optical fibre :
- (a) Length : _____(m)
 - (b) Specified by the manufacturer as being capable of withstanding a proof test tensile stress of 2×10^9 N/m² or more,
- Please specify the proof test tensile stress : _____ (N/m²)

N.B.: It is an underwater umbilical cable.

| | | Yes | No |
|----------|--|--------------------------|--------------------------|
| 5A001(d) | “Electronically steerable phased array antenna”: | | |
| (1) | Rated for operation above 31.8 GHz, but not exceeding 57 GHz, and having an Effective Radiated Power (ERP) equal to or greater than +20 dBm (22.15 dBm Effective Isotropic Radiated Power (EIRP)); | <input type="checkbox"/> | <input type="checkbox"/> |
| (2) | Rated for operation above 57 GHz, but not exceeding 66 GHz, and having an ERP equal to or greater than +24 dBm (26.15 dBm EIRP); | <input type="checkbox"/> | <input type="checkbox"/> |
| (3) | Rated for operation above 66 GHz, but not exceeding 90 GHz, and having an ERP equal to or greater than +20 dBm (22.15 dBm EIRP); | <input type="checkbox"/> | <input type="checkbox"/> |
| (4) | Rated for operation above 90 GHz; | <input type="checkbox"/> | <input type="checkbox"/> |
| | Note: | | |
| 1. | The “electronically steerable phased array antenna” is for landing systems with instruments meeting ICAO standards covering microwave landing systems (MLS). | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. | The antenna is specially designed for : | | |
| (a) | Civil cellular or WLAN radiocommunications systems; | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) | IEEE 802.15 or wireless HDMI; | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) | Fixed or mobile satellite earth stations for commercial civil telecommunications. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001(e) | Radio direction finding equipment, operating at frequencies above 30 MHz | <input type="checkbox"/> | <input type="checkbox"/> |
| (1) | Having "Instantaneous bandwidth" of 10 MHz or more; and | <input type="checkbox"/> | <input type="checkbox"/> |
| (2) | Capable of finding a line of bearing (LOB) to non-cooperating radio transmitters with a signal duration of less than 1 ms. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001(f) | Mobile telecommunications interception or jamming equipment, and monitoring equipment, and specially designed components for those equipments : | | |
| (1) | Interception equipment designed for the extraction of voice or data, transmitted over the air interface; | <input type="checkbox"/> | <input type="checkbox"/> |
| (2) | Interception equipment not specified in 5A001(f)(1), designed for the extraction of client device or subscriber identifiers (e.g., IMSI, TIMSI or IMEI), signalling, or other metadata transmitted over the air interface; | <input type="checkbox"/> | <input type="checkbox"/> |
| (3) | Jamming equipment specially designed or modified to intentionally and selectively interfere with, deny, inhibit, degrade or seduce mobile telecommunication services and performing any of the following : | <input type="checkbox"/> | <input type="checkbox"/> |
| (a) | Simulate the functions of Radio Access Network (RAN) equipment; | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) | Detect and exploit specific characteristics of the mobile telecommunications protocol employed (e.g. GSM); | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) | Exploit specific characteristics of the mobile telecommunications protocol employed (e.g. GSM); | <input type="checkbox"/> | <input type="checkbox"/> |
| (4) | Radio Frequency (RF) monitoring equipment designed or modified to identify the operation of items specified in 5A001(f)(1), 5A001(f)(2) or 5A001(f)(3); | <input type="checkbox"/> | <input type="checkbox"/> |
| | Note: | | |
| (a) | Equipment is specially designed for the interception of analogue Private Mobile Radio (PMR), IEEE 802.11 WLAN; | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) | Equipment is designed for mobile telecommunications network operators; | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) | Equipment is designed for the "development" or "production" of mobile telecommunications equipment or systems. | <input type="checkbox"/> | <input type="checkbox"/> |

| | | Yes | No |
|-----------|--|--------------------------|--------------------------|
| 5A001 (g) | Passive Coherent Location (PCL) systems or equipment, specially designed for detecting and tracking moving objects by measuring reflections of ambient radio frequency emissions, supplied by non-radar transmitters; Note: | <input type="checkbox"/> | <input type="checkbox"/> |
| | (a) The equipment is a radio-astronomical equipment; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) The system or equipment requires any radio transmission from the target | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001 (h) | Counter Improvised Explosive Device (IED) equipment and related equipment: | | |
| | (1) Radio Frequency (RF) transmitting equipment, not specified in 5A001(f), designed or modified for prematurely activating or preventing the initiation of Improvised Explosive Devices; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (2) Equipment using techniques designed to enable radio communications in the same frequency channels on which co-located equipment specified in 5A001(h)(1) is transmitting; | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A001 (j) | IP network communications surveillance systems or equipment, and specially designed components for the systems or equipment, having all of the following: | | |
| | (1) Performing all of the following on a carrier class IP network (e.g., national grade IP backbone): | | |
| | (a) Analysis at the application layer (e.g., Layer 7 of Open Systems Interconnection (OSI) model (ISO/IEC 7498-1)); | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) Extraction of selected metadata and application content (e.g., voice, video, messages, attachments); | <input type="checkbox"/> | <input type="checkbox"/> |
| | (c) Indexing of extracted data; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (2) Being specially designed to carry out all of the following: | | |
| | (a) Execution of searches on the basis of 'hard selectors'; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) Mapping of the relational network of an individual or of a group of people; | <input type="checkbox"/> | <input type="checkbox"/> |
| | Note: The system or equipment is specially designed for any of the following: | | |
| | (a) Marketing purpose; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) Network Quality of Service (QoS); | <input type="checkbox"/> | <input type="checkbox"/> |
| | (c) Quality of Experience (QoE) | <input type="checkbox"/> | <input type="checkbox"/> |
| 5A101 | Telemetry and telecontrol equipment, including ground equipment, designed or modified for 'missiles'; Note: The equipment is: | <input type="checkbox"/> | <input type="checkbox"/> |
| | (a) Equipment designed or modified for manned aircraft or satellites; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) Ground based equipment designed or modified for terrestrial or marine applications; | <input type="checkbox"/> | <input type="checkbox"/> |
| | (c) Equipment designed for commercial, civil or safety of life (e.g. data integrity, flight safety) GNSS services. | <input type="checkbox"/> | <input type="checkbox"/> |

5B1 TEST, INSPECTION AND PRODUCTION EQUIPMENT

5B001 Telecommunication test, inspection and production equipment, components and accessories, as follows:

Yes No

5B001(a) Equipment and specially designed components or accessories for the equipment, specially designed for the “development” or “production” of equipment, functions or features, specified by 5A001;

Note:

The equipment is an optical fibre characterization equipment.

5B001(b) Equipment and specially designed components or accessories therefor, specially designed for the "development" of any of the following telecommunications transmission or switching equipment :

5B001(b)(2) Equipment employing a “laser” and having any of the following :

(a) A transmission wavelength exceeding 1750 nm,

Please specify : _____ (nm)

(b) Employing analogue techniques and having a bandwidth exceeding 2.5 GHz,

Please specify the bandwidth : _____ (GHz);

Note:

The equipment is specially designed for the “development” of commercial TV systems.

5B001(b)(4) Radio equipment employing quadrature-amplitude-modulation (QAM) techniques above level 1024,

Please specify the level : _____

5D1 SOFTWARE

| | | Yes | No |
|-------------|---|--------------------------|--------------------------|
| | Is there any “software” included with the telecommunications equipment? | <input type="checkbox"/> | <input type="checkbox"/> |
| | <i>If yes, complete the following:</i> | | |
| 5D001(a) | “Software” specially designed or modified for the “development”, “production” or “use” of equipment, functions or features specified in 5A001 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5D001(c) | Specific "software" specially designed or modified to provide characteristics, functions or features of equipment controlled by 5A001 or 5B001; | <input type="checkbox"/> | <input type="checkbox"/> |
| 5D001(d) | “Software” specially designed or modified for the “development” of any of the following telecommunications transmission or switching equipment: | | |
| 5D001(d)(2) | Equipment employing a “laser” and having any of the following : | | |
| | (a) A transmission wavelength exceeding 1750 nm; please specify the transmission wavelength: _____ (nm): | <input type="checkbox"/> | <input type="checkbox"/> |
| | (b) Employing analogue techniques and having a bandwidth exceeding 2.5 GHz, please specify the bandwidth : _____ (GHz): | <input type="checkbox"/> | <input type="checkbox"/> |
| | Note: “Software” is specially designed or modified for the “development” of commercial TV systems. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5D001(d)(4) | Radio equipment employing quadrature-amplitude-modulation (QAM) techniques above level 1024, Please specify the level: _____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 5D101 | "Software" specially designed or modified for the "use" of equipment controlled by 5A101 | <input type="checkbox"/> | <input type="checkbox"/> |

Block diagram showing the proposed telecommunications system configuration :

=====

I declare that I am the manufacturer of the products and it is to the best of my knowledge and belief the information given above is true and correct.

Name of Signatory: _____
(in block letters)

Position of Signatory in the Company: _____

Signature & Company chop: _____

Date: _____

Important Note : The data collected in this form will be kept in confidence. They may however be disclosed to other government departments, or to third parties in Hong Kong or elsewhere, if such disclosure is necessary to facilitate consideration of the related application, is in the interests of the trade in Hong Kong, is authorised or required by the law; or if explicit consent to such disclosure is given by the applicant/data subject.

For further information concerning the handling of personal data by the Department, please refer to a relevant Note issued by the Department on the subject, copy of which is obtainable from the Strategic Trade Controls Branch, 16/F, Trade and Industry Tower, 3 Concorde Road, Kowloon City, Hong Kong.