# Element Materials Technology

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Technical Information Request for

TIA-968-A and CS-03

ANALOGUE AND DIGITAL INTERFACES

**Please complete and return this form, preferably before testing commences to avoid any unnecessary delays.**

**However, if testing is going to be witnessed operational information can be given when testing.**

## SECTION A : General Information

**A.1 Applicant details**

Applicant name:

Address:

Telephone No: Fax No:

Contact Name/Title:

**A.2 Product Information**

Product name:

Model/Catalogue No/Part No:

Please give details of subassemblies.

|  |  |
| --- | --- |
| Subassembly name | Model/Catalogue No/Part No |
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If possible, please supply two complete samples of the apparatus to the laboratory for assessment.

**A.3 Write here details and location of any software or firmware which will affect compliance:**

|  |  |
| --- | --- |
| Software version: |  |
|  |  |
|  |  |
|  |  |
| Software component or storage location: |  |
|  |  |

**A.4 Can the equipment be installed in a testing laboratory for assessment, or must it be tested at another site?**

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**A.5 List any transient/surge protection circuitry or devices?**

*(both at the interface and the power supply. Include protection levels)*

Interface:

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Power supply:

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**A.6 Write here details of any alternative components in the interface circuit:**

*(this refers to critical components that have more than one source)*

Transformer (Primary source):....................................................................................

Transformer (Secondary source):...............................................................................

Other:...........................................................................................................................

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**A.7 Interface Details**

Which of the following types of interface are present:

**DIGITAL INTERFACES**

|  |  |  |
| --- | --- | --- |
|  | ISDN Basic Rate S Interface |  |
|  |  |
|  | ISDN Basic Rate U Interface |  |
|  |  |
|  | ISDN Primary Rate 1.544 kbit/s |  |
|  |  |  |
|  | T1 1.544 kbit/s |  |
|  |  |  |
|  | Subrate |  |
|  |  |  |
|  | PSDS |  |

**ANALOGUE INTERFACES**

|  |  |  |
| --- | --- | --- |
|  | Loop Start |  |
|  |  |
|  | Ground Start |  |
|  |  |  |
|  | Tie Trunk (lossless) 2 wire |  |
|  |  |  |
|  | Tie Trunk (lossless) 4 wire |  |

(continued)

|  |  |  |
| --- | --- | --- |
|  | Off Premises Station (OPS) |  |
|  |  |  |
|  | Local Area Data Channels (LADC) |  |
|  |  |  |
|  | Private Lines (ringdown, metallic, inband) |  |
|  |  |  |
|  | Reverse Battery |  |
|  |  |  |
|  | Other (...........................................................................................................) |  |
|  |  |  |
|  | Other (...........................................................................................................) |  |
|  |  |  |
|  | Other (...........................................................................................................) |  |
|  |  |  |
|  | Other (...........................................................................................................) |  |

**A.8 How many of each type of interface are provided per sample, i.e. dual interface samples?**

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**A.9 Are all the multiple port interfaces of each type based on an identical design, interface circuitry and components?**

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**A.10 What type of connectors are required?**

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**What are the pin-outs?**

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**A.11 Is the apparatus intended for handheld use?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**A.12 Is the apparatus intended for desktop use?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

If yes, what is the weight of the apparatus in kg?

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**Section B Functions and Parameters**

**B.1.1 Does the apparatus contain CSU functions?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**If yes, how are the 1.544 kbit/s pulse shape options set?**

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**B.1.2 Does the apparatus require the presence of a Network Protection Device (NPD) at installation?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**B.2 Provide details of any Encoded Analogue Signals (EAS) sources within the apparatus?**

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Note:

*EAS is defined as any of the following:*

*a) voice path between a bearer (B) channel on the ISDN interface and the following:*

*- any analogue POTS telephone set*

*- any analogue or digital interface that may be present in the unit*

*- a bearer channel on another ISDN interface.*

*b) digitally stored voice messages*

*c) voice messages pre-recorded through a handset and played back over the ISDN interface.*

*d) DTMF network addressing tones that may be sent to the network as encoded analogue over the ISDN interface.*

*e) any other internally generated tones that may be encoded (or generated in digital format for subsequent decoding by the network) and sent over the ISDN interface (i.e., dial tone, audible ring, etc)*

*f) DSP fax transmissions*

*g) modem over ISDN*

**B.3 Please provide details of any Intentional Paths to Earth?**

(these devices may need to be removed during testing)

**Operational Paths:**

*(eg. ground start leads)*

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**Protective Paths:**

*(eg. MOVs and surge suppressers)*

*(Note: Some fuses will not be acceptable for FCC filings)*

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**B.4 List any through transmission ports in the apparatus?**

*(eg. fax port, associated telephone. Also for a PBX this will include other ports)*

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**B.5 Does the apparatus have any automatic redialling capability?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**If yes, describe where the redialling is controlled from?**

*(emergency alarm diallers and diallers under external computer control are exempt)*

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**B.6 Does the apparatus use CAS (bit robbed) signalling bits?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**B.7 Does the apparatus support direct inward dialling?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**B.8 Does the apparatus have a mode whereby it is transmits an isolated pulse?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**If yes, how is this mode achieved?**

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**If no, a payload loopback will be required if the pulse shape test is applicable?**

**Section C: Surge Testing Parameters:**

**C.1 Is the apparatus host independent?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**If no, please give details of the hosts?**

*(include variations in PSU's, back planes and internal wiring)*

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**C.2 Is the apparatus mains powered?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |
|  |  |  |  |

**C.3 Describe the earthing arrangements of the apparatus?**

*(include earth bonding points, cable screening etc.)*

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