

SCIENCE AND ENGINEERING RESEARCH COUNCIL
RUTHERFORD APPLETON LABORATORY

COMPUTING DIVISION

DISTRIBUTED INTERACTIVE COMPUTING NOTE 637

PERQ/Cambridge Ring
Requirement for PERQ/GPIB ring interfaces

113 Rec
issued by
J M Loveluck

15 June 1982

DISTRIBUTION: R W Witty
 D A Duce
 W P Sharpe
 J M Loveluck
 RL Support/Cambridge Ring/RAL Hardware
 Spares

The following document is the tender for the PERQ/GPIB Cambridge Ring interface units for the DCS Programme's equipment pool.

1. INTRODUCTION

The UK Science and Engineering Research Council is considering the purchase of Cambridge Ring interface units for the PERQ computer, or similar machines with a GPIB I/O port and GPIB Controller/Talker/Listener capability. The device must meet the specification given in the attached documents. This specification includes circuit diagrams and drawings of the physical layout of the unit. No re-engineering of these aspects is required or expected. However tenders with improved capability or better engineering will be acceptable.

2. QUANTITIES

Please quote for the supply of the following items to the specification of the attached documents.

<u>Qty</u>	<u>Item</u>
1-10 11-50	Interface unit incorporating power supply for ring station.
1-10 11-50	GPIB cables of length 2 metres.

3. SPECIFICATION DOCUMENTS

The specification is defined by the documents listed below:

- Cambridge Ring (50 wire node) Interface to IEEE488 GPIB, written specification.
- PCB masters (3 off)
- Wiring diagram and schedule of box (R4889)
- Metal details diagram. (R4888)
- Layout diagram and parts list. (R4886)
- Drilling drawing. (R4885)
- Polynet IEEE488 Interface bus, circuit diagram. (R4881)

The IEEE488 standard is expounded in the following document:

IEEE Standard Digital Interface for Programmable Instrumentation (Institute of Electrical and Electronics Engineer, New York, 1978).

4. PACKAGING

The interface is to be packaged as a single unit, incorporating the power supply, in a conventional box for table top use.

5. ACCEPTANCE

The interface will be required to operate continuously for half an hour under conditions testing the full functionality of the specification.

6. DELIVERY

All units should be delivered to the Rutherford Appleton Laboratory.

7. MAINTENANCE

The interface units will be used by various university research groups sited around the UK and will therefore be geographically dispersed during their lifetime. Please give details and costs of:

- (a) your field maintenance service, and
- (b) your spares service and spares stock.

8. TECHNICAL ENQUIRIES

Further technical details can be obtained from:

- (1) W P Sharpe, (0235) 21900 ext: 6394
- (2) A Cash, " " ext: 6132
- (3) J Loveluck, " " ext: 6566

M E M O R A N D U M

To: D Edens
AERE Contracts

From: J Loveluck
Computing Division
Rutherford Appleton Laboratory

15 June 1982

On behalf of Dr Witty's PERQ project I would be most grateful if you could set in motion a tendering exercise for the supply of IEEE488 Cambridge Ring interfaces. The RAL has already built a prototype device so we know exactly what we want. The technical details should be enclosed with the tender.

One complete set of technical specifications is attached, and further sets will be supplied shortly.

We anticipate buying a significant number (750) of these units if they prove successful and cheap. We expect the price to be <£1000 per unit.

The following firms may be interested in submitting tenders:

Toltec Computer Limited
24 Thompson's Lane
Cambridge
CB5 8AQ

Attention: Mr M J T Roberts

Scientific and Electronic Enterprises Ltd
Livingstone
West Lothian
Scotland
Tel: Livingstone 411503

Attention: Robert Dickinson

Logica VTS
64 Newman Street
London
W1A 4SE
Tel: 01-637-5171

Attention: Mr M Cole

ICL Limited
Computer House
322 Euston Road
London
NW1 3BD
Tel: 01-387-7030

Attention: Mr P Lever

GEC Computers Limited
Eyncourt Road
Woodside Industrial Estate
DUNSTABLE
Bedfordshire
LU5 4TS

Attention: Mrs O Parker

Orbis Computers Ltd
4a Market Hill
CAMBRIDGE
CB2 3NJ

Attention: Mr P O'Keefe

Millennium
Professional & Technical Services Ltd
Boulton Road
Stevenage
Herts
SG1 4QX
Tel: 0438 726661

Attention: Mr J Lever

Racal Milgo Limited
Portman House
Portman Road
READING
RG3 1NW

Attention: Mr J Rance

Camtec Electronics Ltd
Buckland Road
LEICESTER
LE5 ONT

Attention: Mr D Drury

Data Recall Limited
Diamond House
138 South Street
DORKING
RH4 2EU

Attention: Mr W Harbison