

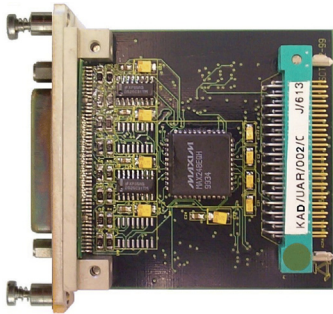


ACRA KAM-500

C O N T R O L

UAR/002

4 channel RS-232 or RS-422/485 universal asynchronous parser



FEATURES

- Four independent input channels
- Bitrates from 300bps to 115kbps
- Seven/eight bits per word
- Odd/even or no parity
- Programmable start sequence, (one to eight characters)
- Programmable stop sequence, (one character or by fixed length)
- Up to 126 strings, messages, per module
- Up to 511 characters, bytes, per message
- Time tagging $\pm 100\mu\text{s}$
- Message-wide stale, new, indication

APPLICATIONS

- Receiving data from GPS module or onboard computer.

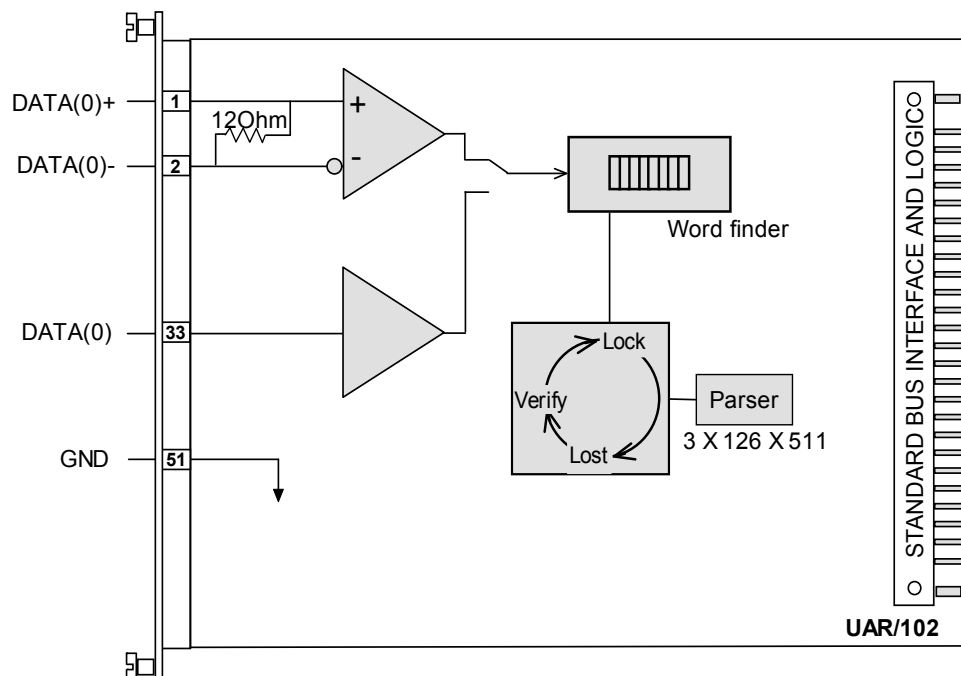
DESCRIPTION

The UAR/002 is used to parse, coherently extract specific bytes, up to 4 x RS-422/485/232 channels. In total up to 126 complete messages are triple buffered so that stale indication is message wide.

Each message can be up to 511 characters, byte, long, each message is also time tagged to $\pm 100\mu\text{s}$.

A message is considered found when up to eight specific bytes are received. The stop sequence must determine the number of words or else a user-defined stop character.

A message is not updated if the start sequence, any word, or stop sequence (if any) is not correct.



First of 4 independent channels

Selection guide and ordering information

Selection Paths

Airborne Data Acquisition → KAM-500 → Modules → Bus → RS-422/485/232

Ordering Information

Part Number	Mating Connector	Description
KAD/UAR/002/C	CON/KAD/002/CP	4-Channel RS-422/485/232 parser module, with 52-way double density top connector
KAM/UAR/002/C	ACC/CON/008/04	4-Channel RS-422/485/232 parser module, with 51-way micro-miniature top connector

Revision History

Revision	Differences	Status
UAR/002/C	Supports a strategy of lock on large gap	Recommended for new programs
UAR/002/B	First release	Not recommended for new programs

In this data sheet UAR/002/C refers to both the KAD and KAM version of the module.

Related Products

Module	Details
KSM-500	This module is supported by the KSM-500 suite of software tools
KSMv2	This module is supported by KSMv2 software

Related Documentation

Document	Details
DOC/HBK/002	Environmental Qualification Handbook
DOC/MAN/018	KSM-500 Databook
DOC/DBK/001	KAM-500 Databook