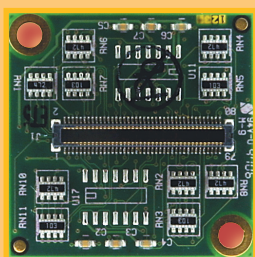
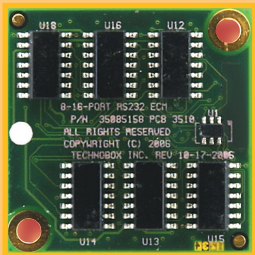
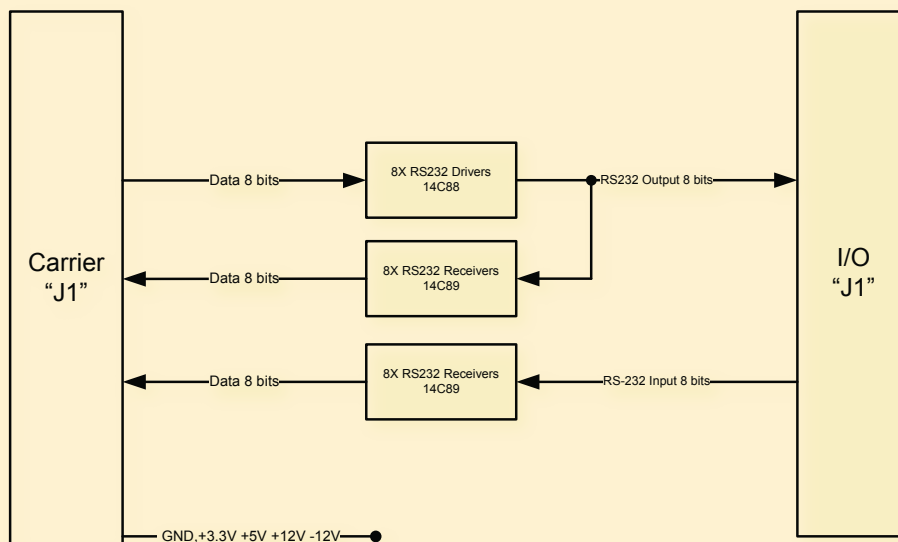


Conversion Module

4 Input / 4 Output RS232 Async Converter



5158



- RS232 Interface ECM
- True RS232 levels
- 8 RS232 MC1488 output drivers
- 8 RS232 MC1489 input receivers
- Compatible with Technobox asynchronous UART products
- Outputs power up to the mark or idle state
- On-board serial identification circuit
- Industrial temperature
- RoHS compliant
- Patented

Specifications

Temperature (Operating):
-40 to +85 degrees C

Temperature (Storage):
-55 to +100 degrees C

Altitude: Not Specified or
Characterized. Typical similar
equipment is at 15,000 ft.

Humidity (Operating/Storage):
5% to 90% non-condensing

Vibration: Not specified or
Characterized

Shock: Not specified or Char-
acterized

MTBF: Available on request

Weight: 3 grams

Power: TBD

Technobox, inc.

140 Mount Holly Bypass
Unit 1
Lumberton, NJ 08048

Tel: 609-267-8988
Fax: 609-261-1011

www.technobox.com

Ordering Information

5158: 4-input / 4-output RS232
Async Converter

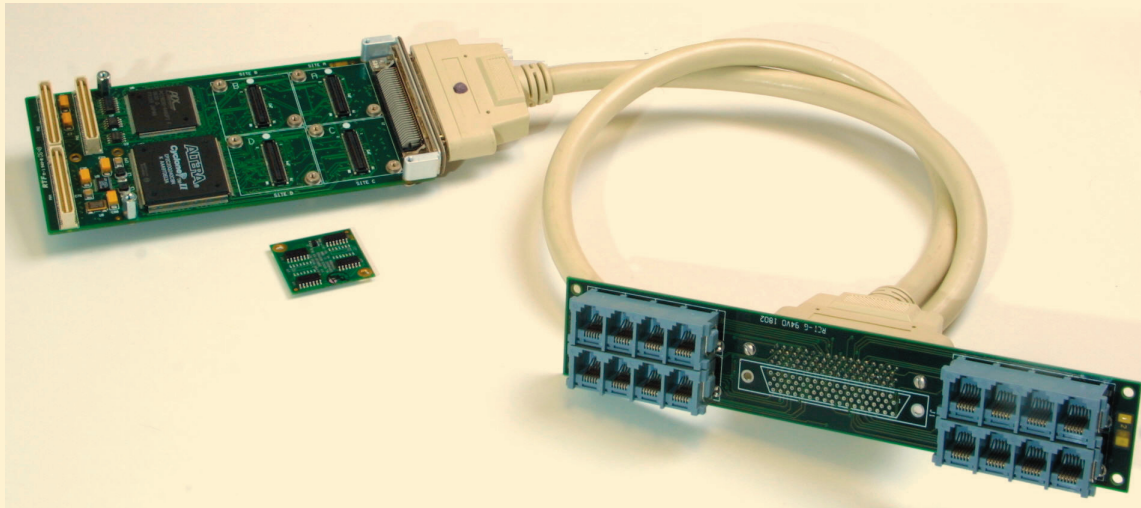
The Technobox P/N 5158 Interface ECM provides 4 RS232 outputs and 4 RS232 Inputs.

Uses 1488 & 1489 chips for true RS232 levels and voltage tolerance.

All outputs come up in the 1, mark or idle state. Electrically this is a negative output voltage, the start bit is always a 0 or a positive voltage level.

The 5158 provides four RS232 asynchronous ports and is compatible in applications previously using the Technobox P/N 5436.

The setup shown allows breakout of the 5158 asynchronous ports into individual RJ11 connectors. The ECM carrier attaches to a Technobox P/N 1866 breakout panel through a 68 pin SCSI cable.



User IO	J1 Pin number	Direction J1	Description
IO0	16	INPUT	U14-1 RS232 receiver
IO1	18	OUTPUT	U13-3 RS232 driver
IO2	28	INPUT	U14-10 RS232 receiver
IO3	30	OUTPUT	U13-6 RS232 driver
IO4	52	INPUT	U15-1 RS232 receiver
IO5	54	OUTPUT	U13-8 RS232 driver
IO6	64	INPUT	U15-10 RS232 receiver
IO7	66	OUTPUT	U13-11 RS232 driver
IO8	65	INPUT	U12-1 RS232 receiver
IO9	63	OUTPUT	U64-3 RS232 driver
IO10	53	INPUT	U12-10 RS232 receiver
IO11	51	OUTPUT	U16-6 RS232 driver
IO12	29	INPUT	U18-1 RS232 receiver
IO13	27	OUTPUT	U16-8 RS232 driver
IO14	17	INPUT	U18-10 RS232 receiver
IO15	15	OUTPUT	U16-11 RS232 driver

Table 1 User IO signal connections

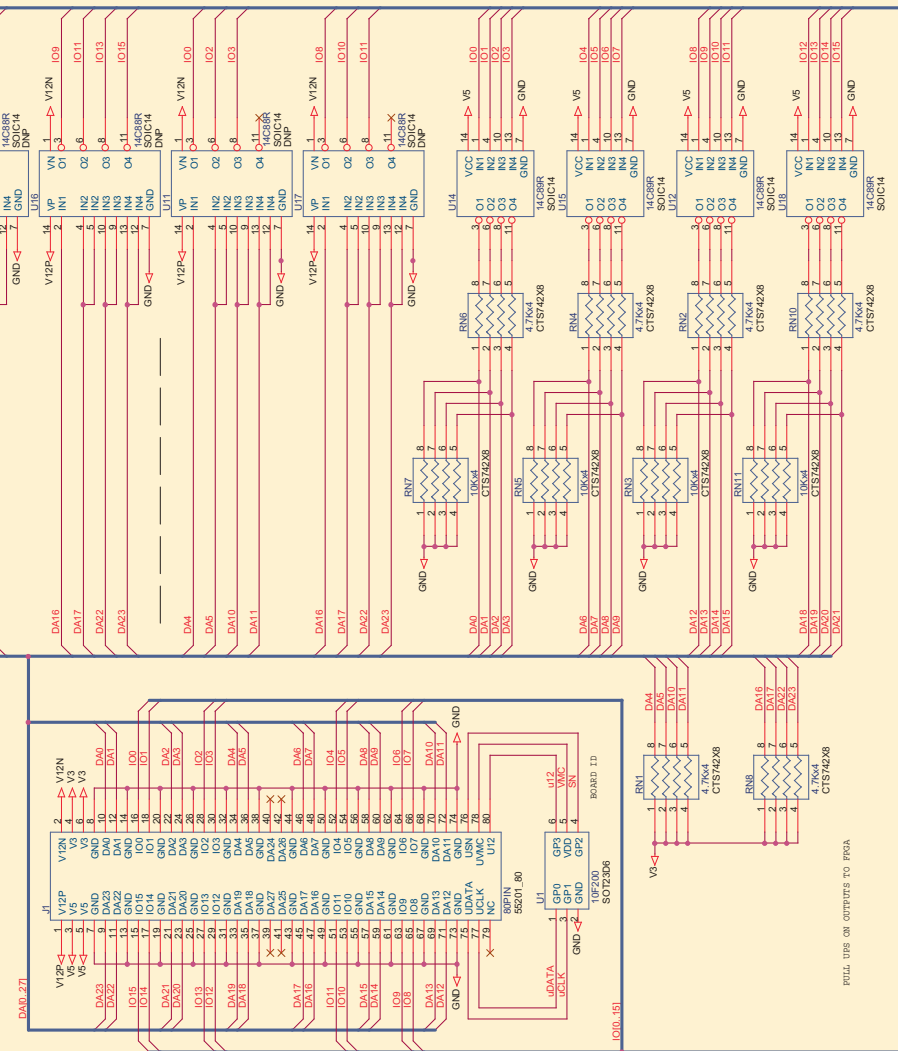
Carrier Data	J1 Pin number	J1 Direction	Description
DA0	10	INPUT	U14-3 IO0 receiver
DA1	12	INPUT	U14-6 IO1 receiver
DA2	22	INPUT	U14-8 IO2 receiver
DA3	24	INPUT	U14-11 IO3 receiver
DA4	34	OUTPUT	U13-2 IO1 driver
DA5	36	OUTPUT	U13-4 IO3 driver
DA6	46	INPUT	U15-3 IO4 receiver
DA7	48	INPUT	U15-6 IO5 receiver
DA8	58	INPUT	U15-8 IO6 receiver
DA9	60	INPUT	U15-11 IO7 receiver
DA10	70	OUTPUT	U13-9 IO5 driver
DA11	72	OUTPUT	U13-13 IO7 driver
DA12	71	INPUT	U12-3 IO8 receiver
DA13	69	INPUT	U12-6 IO9 receiver
DA14	59	INPUT	U12-8 IO10 receiver
DA15	57	INPUT	U12-11 IO11 receiver
DA16	47	OUTPUT	U16-2 IO9 driver
DA17	45	OUTPUT	U16-4 IO11 driver
DA18	35	INPUT	U18-3 IO12 receiver
DA19	33	INPUT	U18-6 IO13 receiver
DA20	23	INPUT	U18-8 IO14 receiver
DA21	21	INPUT	U18-11 IO15 receiver
DA22	11	OUTPUT	U16-9 IO13 driver
DA23	9	OUTPUT	U16-13 IO15 driver
DA24	40	N/C	No connection
DA25	41	N/C	No connection
DA26	42	N/C	No connection
DA27	39	N/C	No connection

Table 2 Carrier DA signal connections

4/4 5/3 CHANNEL 232
3508 TOP-ECM232

POPULATE FOR 16-PORT BOARD

POPULATE FOR 8-PORT



PULL UPS ON OUTPUTS TO FPGA

TECHNOBOX, INC.

140 Mt. Holly Byways
Unit 1
Mantoloking, New Jersey 08048
(909) 267-8888

Rev
8
ECM232-02N

Sheet 1 of 1

Date: Monday, July 30, 2007