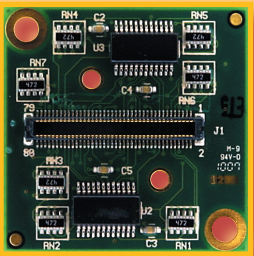
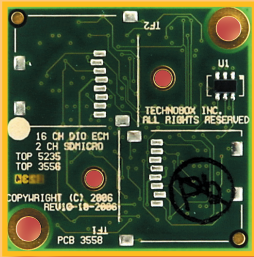
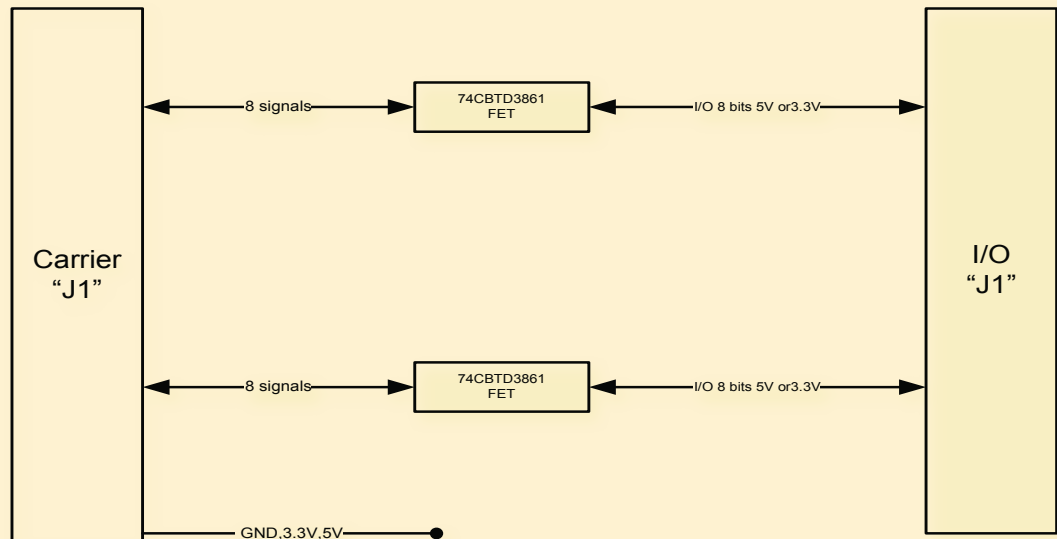


Conversion Module

16-bit Digital I/O Converter



5235



- Digital I/O ECM
- 16-bit digital I/O, 5-volt tolerant
- Extended temperature range
- On-board serial identification circuit
- 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

Ordering Information

5235: 16-bit Digital I/O Converter

Technobox, inc.

140 Mount Holly Bypass
Unit 1
Lumberton, NJ 08048

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

www.technobox.com

The Technobox P/N 5235 ECM provides 16 bits of simple digital I/O.

The digital I/O is connected directly to the digital I/O on the carrier card.

Inputs are clamped to about 3V by FET buffer ICs, and are 5V tolerant.

Electrically the IO signals are the carrier digital signals buffered by a FET. A simplified model is shown below of the connection between DA0 and IO0. For input voltages below about 0.5V the circuit acts like a low resistance typically about 5 ohms. The resistance increases with increasing voltage.



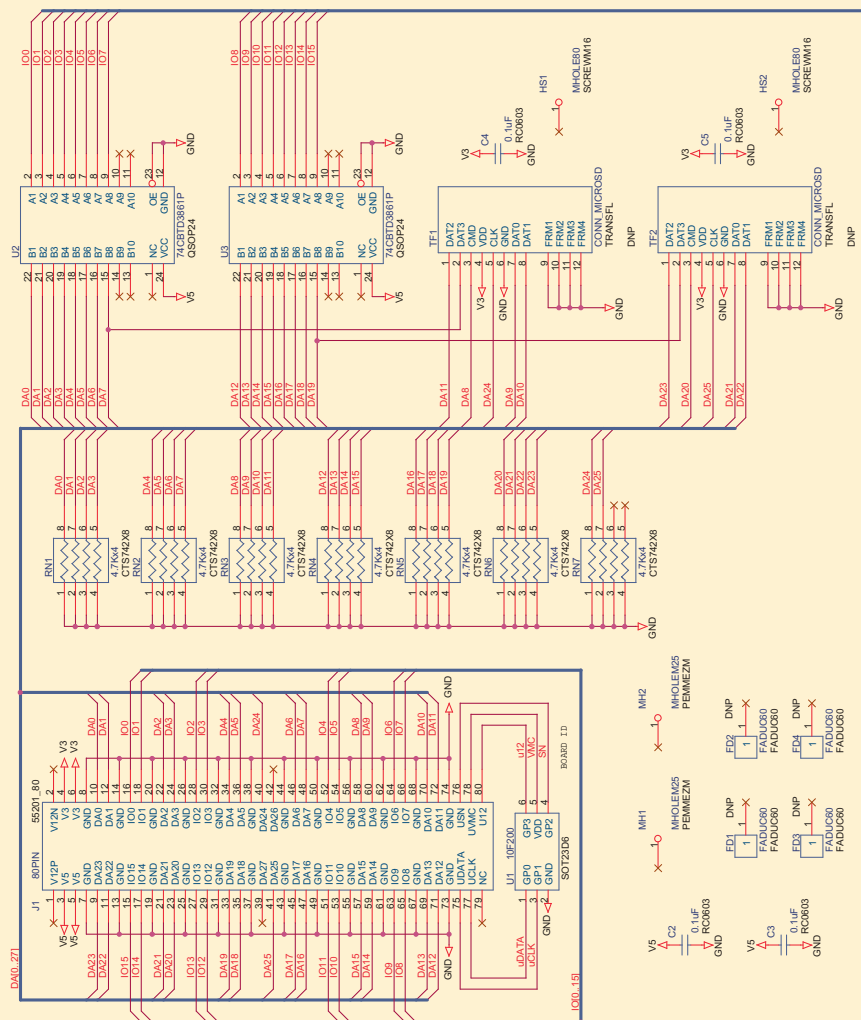
Carrier Data	J1 Pin number	Direction	Description
DA0	10	BIDIR	FET buffered IO bit. IO0
DA1	12	BIDIR	FET buffered IO bit. IO1
DA2	22	BIDIR	FET buffered IO bit. IO2
DA3	24	BIDIR	FET buffered IO bit. IO3
DA4	34	BIDIR	FET buffered IO bit. IO4
DA5	36	BIDIR	FET buffered IO bit. IO5
DA6	46	BIDIR	FET buffered IO bit. IO6
DA7	48	BIDIR	FET buffered IO bit. IO7
DA8	58	N/C	No connection
DA9	60	N/C	No connection
DA10	70	N/C	No connection
DA11	72	N/C	No connection
DA12	71	BIDIR	FET buffered IO bit. IO8
DA13	69	BIDIR	FET buffered IO bit. IO9
DA14	59	BIDIR	FET buffered IO bit. IO10
DA15	57	BIDIR	FET buffered IO bit. IO11
DA16	47	BIDIR	FET buffered IO bit. IO12
DA17	45	BIDIR	FET buffered IO bit. IO13
DA18	35	BIDIR	FET buffered IO bit. IO14
DA19	33	BIDIR	FET buffered IO bit. IO15
DA20	23	N/C	No connection
DA21	21	N/C	No connection
DA22	11	N/C	No connection
DA23	9	N/C	No connection
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 1 Carrier DA signal connections

User IO	J1 Pin number	Direction	Description
IO0	16	BIDIR	FET buffered IO bit. DA0
IO1	18	BIDIR	FET buffered IO bit. DA1
IO2	28	BIDIR	FET buffered IO bit. DA2
IO3	30	BIDIR	FET buffered IO bit. DA3
IO4	52	BIDIR	FET buffered IO bit. DA4
IO5	54	BIDIR	FET buffered IO bit. DA5
IO6	64	BIDIR	FET buffered IO bit. DA6
IO7	66	BIDIR	FET buffered IO bit. DA7
IO8	65	BIDIR	FET buffered IO bit. DA12
IO9	63	BIDIR	FET buffered IO bit. DA13
IO10	53	BIDIR	FET buffered IO bit. DA14
IO11	51	BIDIR	FET buffered IO bit. DA15
IO12	29	BIDIR	FET buffered IO bit. DA16
IO13	27	BIDIR	FET buffered IO bit. DA17
IO14	17	BIDIR	FET buffered IO bit. DA18
IO15	15	BIDIR	FET buffered IO bit. DA19

Table 2 User IO signal connections

16 CHANNEL DIGITAL IO 5V or 3V
3556 TOP-ECMDIG2



POPULATE IN ALL CASES

POPULATE FOR USD CARD BUILD ONLY

TECHNOBOX, INC.

140 Mt. Holly Bypass
Unit 1
Lumberton, New Jersey 08048
(609)-267-8988

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