

**Description :**

The IP-SYNC-x Industry Pack module from Alphi Technology is a dual channel Resolver / Synchro to digital converter module. This module incorporates two independent R/D/C controller. Both R/D/C channels have several different configurations for the input: (direct, differential, (resolver) or synchro). Applications include radar, antenna positioning, scientific, laboratory & medical and machine control. The tracking rate and bandwidth are user defined when ordered. It is compatible with the VITA4 1995 spec.



## Dual Channel 16 bit Synchro / Resolver Industry Pack Module



IP-SYNCHRO

**Features**

- Dual channel Resolver / Synchro to digital converters inputs.
- Programmable resolution at 10, 12, 14 and up to 16-bit.
- Tracking up to 1152 rps.
- Simultaneous reading of the converters.
- On board excitation
- Oscillator output ~1 Vrms
- Programmable frequency excitation: 50, 60, 400, 1k, 2.5k, 5k, 10 k
- Converter error conditions
- On board synthesized ref.
- User-define excitation voltage (2.2, 2.5, 4, 4.4 Vrms)

**I/O Level**

- Direct input for 2V resolver Differential
- Synchro input (predefined : 11.8V or 90V)
- (2) DDC RDC19222 controller

**IP Interface**

- 8/32 Mhz clock

**Mechanical & Environmental**

- Operating temperature  
 Commercial: 0 to +55 °C  
 Optional: -25°C to +80°C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 10'000 ft
- Size: Vita 4 Type 1 IP  
 1.8" x 3.9"
- Power: .7 watt
- Vibration: 0.5G RMS  
 20-2000 Hz rand
- Shock: 20 G, 11 ms, ½ sine
- MTBF: >110000 hours

**Ordering Information**

Part Number : IP-SYNCHRO-2  
 IP-SYNCHRO-11  
 IP-SYNCHRO-90

**Optional Accessories**

Part Number : TB-50-HDR                      50 pin terminal block and 1meter flat ribbon cable  
 Part Number : CBL-50-HDR                50 pin 1meter flat ribbon cable, IDC header connector

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