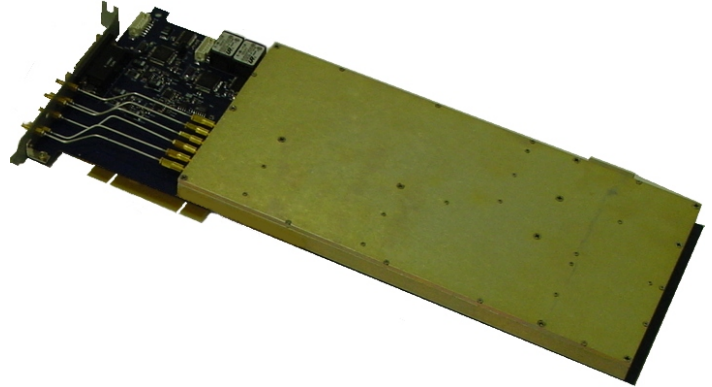


PCI MULTI-BAND RF TUNER

MODEL PCT602MP

- 70 MHz IF
- Dynamic Range
 - 10 dBm to threshold
- Safe Input Level
 - +20 dBm
- Multi-Band Tuner
 - 1415-1585 MHz
 - 1650-1850 MHz
 - 2185-2485 MHz
- AGC
 - 5 Selectable Time Constants
 - AGC Zero Function
 - AGC Freeze Function
 - 3 Scalable Outputs
- AM
 - Independent of AGC Time Constant
 - 2 Vp-p Output @ 50% Modulation
- ARTMS Tier II Phase Noise Compliant



The RF tuners employ the latest technology in surface mount and RF component construction to substantially reduce the size and provide for the widest possible RF Tuner coverage in a full size PCI card form factor. System architecture incorporates both the first and second local oscillator design, as well as AM and AGC circuitry on one CCA. This CCA provides both linear and non-linear 70 MHz outputs for: a) filtering and demodulation by the IF Receiver CCA; b) input and processing by the diversity combiner CCA; c) routing to other installed CCAs and/or internal devices; and rear panel BNC outputs for routing the signal to a variety of external devices. This CCA also provides a switched input for tape playback, injecting the up-converted 390 MHz from the Tape Interface CCA (PCIP623) directly into the RF Front End.

These CCAs tune and operate in 100 kHz steps independent of all other installed receiver channels. Frequency coverage includes 1415-1585, 1650-1850 and 2185-2485 MHz.



Technology & Innovation for a Safer World

PCT602MP SPECIFICATIONS

Receiver

Dual Conversion Superheterodyne

Frequency Bands

1415 - 1585 MHz
1650 - 1850 MHz
2185 - 2485 Mhz

| | |
|-----------------------------------|---|
| Dynamic Range | -10 dBm to threshold |
| Maximum Safe Input Level | +20 dBm |
| Noise Figure | <8 dB |
| VSWR | 1.5:1 typical; 2:1 max. |
| Image & Spurious Signal Rejection | >60 dB |
| IF Rejection | 70 dB min. 80 dB typical |
| Phase Noise | ARTMS Tier II Compliant |
| RF Input Tuning Resolution | 100 kHz |
| First LO Stability | per IRIG |
| System Reference | ±1 ppm/yr (internal 10 MHz reference), or external 10 MHz reference |
| First IF Frequency | 390 Mhz |
| Second IF Center Frequency | 70 MHz |
| Second LO Stability | per IRIG |
| AGC Time Constants | 5 program selectable (0.1 ms to 1000 ms) |
| AGC Zero | Zeroes AGC voltage at ± 0.05 VDC |
| AGC Freeze | AGC Hold and Sample via software control |
| AGC Outputs | 10, 20 or 50 dB/V (User Selectable) 2 outputs per channel |
| AM Output | 2 V p-p into 50 ohms @ 50% modulation |
| AM Frequency Response | 100 kHz (independent of AGC time constant) |
| Acquisition and Tracking Range | 300 kHz (±150 kHz) |
| Pre-D Recording & Playback | 75 kHz to 15 MHz |
| AFC Loop Stress | 1 to 100 Hz sweep ± 150 kHz range. |

Specifications subject to change without notice. Please verify the latest specifications at time of order.

Systems Engineering &
Management Company
1430 Vantage Court
Vista, CA 92081-8596

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For Further Information, Call:
(800) 995-0636, Ext.188
(760) 727-7800, Ext. 188
FAX (760) 727-5200
email: info@semco.com
<http://www.semco.com>