Communications & Power Industries
High Power Transmitters

KLYSTRON TRANSMITTERS
S and C Bands

MAGNETRON TRANSMITTERS
S, C, X, and Ku Bands

TWT TRANSMITTERS
S, C, X, and I/J Bands

CCTWT TRANSMITTERS
C and X Bands

PULSED INSTRUMENTATION AMPLIFIERS
L, S, C, X, Ku, and I/J Bands
Weather Radar Transmitters

- Available in: S, C and X-Band
- Support most new and existing weather radar systems
- Individual microwave components or a complete transmitter

Klystron Weather Radar Transmitters

- S, C, and X-Band transmitters
- Excellent stability & performance
- Tunable
- Up to 1 MW peak output power
- Forced air cooled
- Touch screen with local/remote control
- Ethernet connectivity for remote monitoring & control

Magnetron Weather Radar Transmitters

- S, C, and X-Band transmitters
- Sheltered or outdoor models
- Forced air cooled
- Touch screen with local/remote control
- Excellent Doppler performance
- Mechanically tunable frequency
- Ethernet connectivity for remote monitoring & control

Industrial and Scientific Transmitters

- Available in rack mount and turnkey configurations
- Compact and ultra-wide band
- Available in: L-Band, S-Band, C-Band, X-Band and Ku-Band

IOT, Gyrotron and TWT Transmitters

- Liquid cooled
- Four port circulator available
- GaN Solid State Power Amplifier Driver
- Superior stability, phase and amplitude ripple
- High power, high efficiency
- User friendly control and operation
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Check out all the CPI high power transmitters at www.cpii.com/bmd

EMC/TWT Pulsed Transmitters

- Available in rack mount and turnkey configurations
- Compact and ultra-wide band
- Available in: L-Band, S-Band, C-Band, X-Band and Ku-Band

S-Band TWT Compact Pulsed Amplifiers

- Single phase AC power
- Local or remote control
- Wide RF bandwidth
- GPIB remote

X-Band TWT Compact Pulsed Amplifiers

- Mobile
- GPIB remote
- Touchscreen
- Waveguide output

Airborne and Surveillance Radar Transmitters

Airborne Radar Transmitters

- S, C, and X-Band transmitters
- Ruggedized design
- Outstanding power per volume
- Easy to control/operate
- Forced air cooled
- High levels of readiness

Surveillance Radar Transmitters

- S, C, and X-Band transmitters
- Resonant high voltage power supply
- Forced air cooled
- Outstanding power per volume

www.cpii.com/bmd
## Typical Operating Parameters

<table>
<thead>
<tr>
<th>Transmitter Application</th>
<th>Frequency Band</th>
<th>Peak Power Range</th>
<th>Average Power Range</th>
<th>Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather Radar</td>
<td>S</td>
<td>850 kW – 1000 W</td>
<td>2 kW</td>
<td>Klystron, Magnetron</td>
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<tr>
<td>Weather Radar</td>
<td>C</td>
<td>250 kW - 1000 W</td>
<td>0.6 kW – 2 kW</td>
<td>Klystron, Magnetron</td>
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<tr>
<td>Weather Radar</td>
<td>X</td>
<td>300 kW</td>
<td>0.3 kW</td>
<td>Klystron, Magnetron</td>
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<tr>
<td>Industrial and Scientific</td>
<td>Ka</td>
<td>100 W – 10 kW</td>
<td>100 W – 10 kW (min)</td>
<td>CW</td>
</tr>
<tr>
<td>Industrial and Scientific</td>
<td>L</td>
<td>90 kW</td>
<td>6.4 kW</td>
<td>IOT</td>
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<tr>
<td>Industrial and Scientific</td>
<td>L</td>
<td>30 kW</td>
<td>Adjustable (2 kW – 30 kW)</td>
<td>IOT</td>
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<tr>
<td>Instrumentation Amplifier</td>
<td>C</td>
<td>60 kW</td>
<td>3 kW</td>
<td>CCTWT</td>
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<tr>
<td>Instrumentation Amplifier</td>
<td>X</td>
<td>15 kW – 17 kW</td>
<td>600 W - 1020 W</td>
<td>CCTWT</td>
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<tr>
<td>Instrumentation Amplifier</td>
<td>L</td>
<td>2 kW, 4 kW and 7.5 kW</td>
<td>80 W, 160 W, 300 W</td>
<td>TWT</td>
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<tr>
<td>Instrumentation Amplifier</td>
<td>S</td>
<td>4.2 kW and 8 kW</td>
<td>250 W, 480 W</td>
<td>TWT</td>
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<tr>
<td>Instrumentation Amplifier</td>
<td>C</td>
<td>4.2 kW and 8 kW</td>
<td>250 W, 480 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>X</td>
<td>5 kW and 8 kW</td>
<td>300 W, 480 W</td>
<td>TWT</td>
</tr>
<tr>
<td>Instrumentation Amplifier</td>
<td>Ku</td>
<td>3.2 kW and 6 kW</td>
<td>192 W, 360 W</td>
<td>TWT</td>
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<tr>
<td>Airborne and Surveillance</td>
<td>2 -18 GHz</td>
<td>250 W</td>
<td>CW</td>
<td>EW TWT</td>
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<tr>
<td>Airborne and Surveillance</td>
<td>J</td>
<td>400 W</td>
<td>CW</td>
<td>TWT</td>
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<tr>
<td>Airborne and Surveillance</td>
<td>2 -18 GHz</td>
<td>100 W - 10 kW</td>
<td>CW</td>
<td>Booster TWT</td>
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