C40 Command Receiver (CMDRX) is NEC’s latest CMDRX series that is capable of using the direct spread spectrum communication system with short carrier acquisition time.

**Applications**
- Satellite bus

**Main Features**
- Strong immunity for jamming and interference
- Short carrier acquisition time
- C, Ku, K and Ka-band are available
- Fully comply with ETSI standard (EN 301 926 V1.3.1)

**Qualifications & Heritage**
- Design based on CMDRX with strong flight heritage.

**Specifications**

<table>
<thead>
<tr>
<th>Electrical Characteristics</th>
<th>Carrier acquisition time</th>
<th>Physical Characteristics</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating frequency</td>
<td>≤ 3 sec (average, except for Ka band)</td>
<td>Dimensions</td>
<td>Temperature</td>
</tr>
<tr>
<td>Modulation</td>
<td>≤ 5 sec (average, for Ka band)</td>
<td>(W) 237 mm</td>
<td>-30°C to +66°C (Acceptance)</td>
</tr>
<tr>
<td>Input range</td>
<td>Power consumption</td>
<td>(D) 82 mm</td>
<td>-35°C to +72°C (Qualification)</td>
</tr>
<tr>
<td>Agile bandwidth</td>
<td>18W (max.)</td>
<td>(H) 171 mm</td>
<td>-40°C to +75°C (Non-operating)</td>
</tr>
<tr>
<td>Frequency</td>
<td>Bit rate</td>
<td>Mass</td>
<td>1.8 kg nom.</td>
</tr>
<tr>
<td>acquisition range</td>
<td>0.25, 0.5, 1, 2, 4 kbps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chip rate</td>
<td>3.069 Mcps (option 5.115 Mcps)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunity performance</td>
<td>&gt; +17 dB for 1 jammer &gt; +7 dB for 10 jammers (Input power ≥ -120dBm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Carrier acquisition time**
- ≤ 3 sec (average, except for Ka band)
- ≤ 5 sec (average, for Ka band)

**Power consumption**
- 18W (max.)

**Dimensions**
- (W) 237 mm
- (D) 82 mm
- (H) 171 mm

**Mass**
- 1.8 kg nom.

**Temperature**
- -30°C to +66°C (Acceptance)
- -35°C to +72°C (Qualification)
- -40°C to +75°C (Non-operating)

**Lifetime**
- 18 years in GEO

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