



# PG5200

## 5G NR Baseband Unit

Pegatron PG5200 Base Station is designed for private network use cases and compliant with 3GPP and O-RAN standards by using Intel® x86 based servers and built-in Pegatron RAN software. Baseband PG5200 provide switching, traffic management, timing, baseband processing, and radio interfacing. The baseband units in the 24-inch format, with 6 radio interface (eCPRI) ports, enable increased connectivity for radio units.

<b>Supported standard</b>	3GPP Rel-15, upgradable to Rel-16
<b>Operating mode</b>	5G NR Standalone, TDD Mode
<b>Fronthaul Function Split</b>	Option 7.2 eCPRI
<b>Sub-Carrier Spacing (SCS)</b>	30KHz
<b>Users/TTI</b>	8UEs/TTI
<b>Radio Band Supported</b>	FR1, n41, n48, n53, n77, n78, n79
<b>Modulation</b>	Up to 256 QAM (DL), Up to 64 QA (UL)
<b>Transmit and Receive Channels support</b>	DL: 4 Layers, UL: 4 Layers
<b>Frame Pattern Profile</b>	DL Centric: DDDSUDDSUU; DDDSU / UL Centric: DSUUU Japan: DDDSUUDDDD; DDSUUDSUU; DDSUUUDSUU; DSUUUUDSUU Various frame patterns settable for DL/UL optimization
<b>Maximum Number of Supported Cells</b>	4 Cells
<b>Maximum User support/cell</b>	128 to 256
<b>Forward Error Correction (FEC) Accelerator</b>	Built-In Intel ACC100 eASIC
<b>Timing Synchronization</b>	Built-In GNSS DPLL module, support IEEE 1588 PTPv2 with ITU-T G.8275.1 and Sync. E with ITU-T G.8262
<b>Input Power</b>	Redundant hot-swappable power supply AC 100 to 240V, 50/60Hz or DC -48V
<b>Maximum power consumption</b>	<180 Watts
<b>Form Factor</b>	1U Rackmount, Telco grade server: Front I/O; short depth
<b>Operating temperature</b>	-5°C to 55°C (23°F to 131°F)
<b>Regulatory Compliance Standard</b>	Taiwan: BSMI / Japan: VCCI / United States: UL, FCC/ India BIS
<b>Dimensions &amp; Weight</b>	43 x 438 x 430mm (1.70" x 17.25" x 16.93" inches); 8.6Kg (lbs)

