

PPC-350 Series

350 Mbps Ethernet Mm-Wave Link

- Frequency band: 40.5–43.5 GHz, 71–76/81–86 GHz
- True Full Duplex Operation
- Secure communication due inability to intercept the laser-like beam transmission at free air
- Solid reliability with Fiber-like Performance
- Distance ranges of up to 5.7 mile (9.2 km) at 350 Mbps and 8 mile (13.1 km) at 80 Mbps at 10 mm/h rain for 40.5–43.5 GHz frequency band
- Distance ranges of up to 4.5 mile (7.2 km) at 350 Mbps and 5.6 mile (9 km) at 80 Mbps at 10 mm/h rain for 71–76/81–86 GHz frequency band
- Easily installed, Zero maintenance
- Compact Cassegrain type antennas
- Quasi-optical (laser-like) propagation of millimeter wave emission
- EMI interference free

Applications

- Wi-Fi or mobile network backhaul
- Business WAN
- FSO backup
- IP telephony gateway connections
- Metropolitan area networks
- Rapid-deployment emergency communications



Description

PPC-350 was specifically designed according to European ECC and US FCC performance requirements. Main feature of PPC-350 consists in possibility to adapt its data transmission speed to the current weather conditions.

PPC-350 supports Adaptive Code and Modulation (ACM) in which changers of coding rate and modulation are set in real time, based on the link conditions. This feature enables to increase radio link availability.

When the link's SNR (Signal to Noise Ratio) is high (during good weather conditions), operation at full capacity is enabled, reaching the maximum speed of 350 Mbps. In case that the link's SNR drops significantly (during heavy rain), the channel capacity is reduced up to 80 Mbps.

The figure shows radio bridge capacity varies due to changers in SNR level.

