Built-in Monitoring Tools
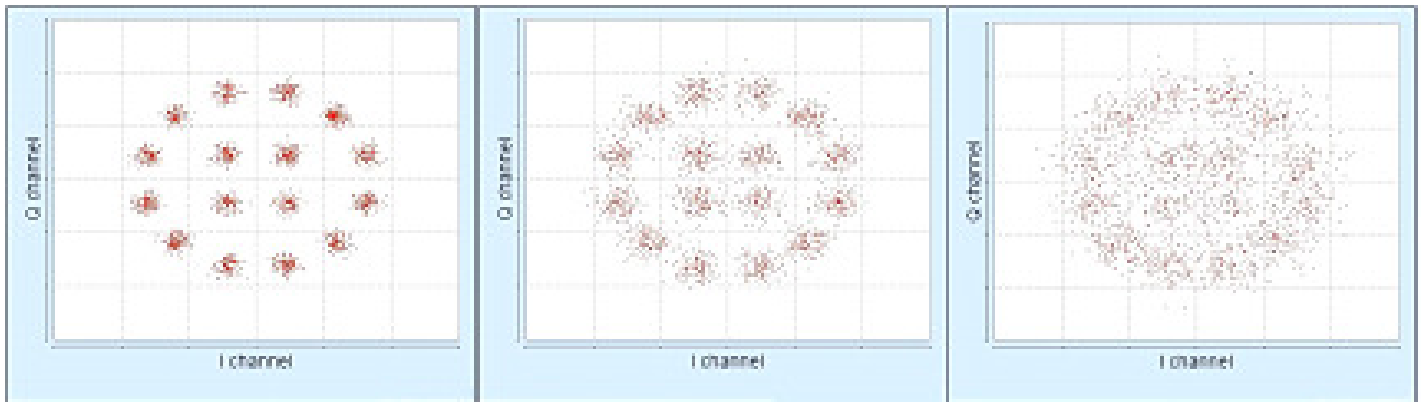## Rx Constellation Monitor
Shaping Satcom Link Diagnostics

OVERVIEW

Paradise has pioneered advanced link diagnostic tools in the industry, such as the Q Series modem Rx constellation monitor. This can be used to identify phase noise, thermal noise and various forms of distortion.
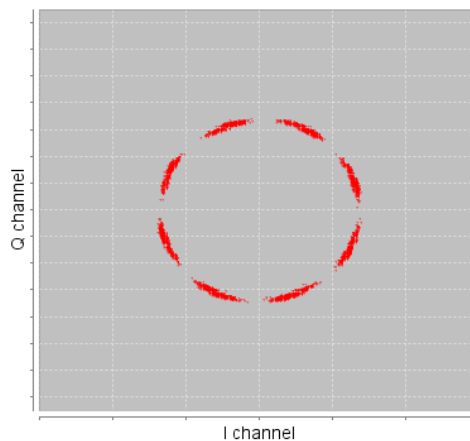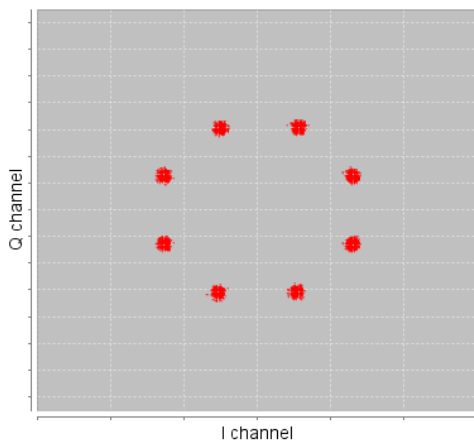
As thermal noise increases, Eb/No decreases and the diameter of the constellation points increase.

Phase noise can be seen as an elongation of the constellation points around a central axis point.

Amplitude compression can be seen as a deviation of the constellation points from their grid position along a radial axis.

Effects of increasing thermal noise *shown on a 16APSK constellation as the Eb/No drops (from left to right).*

8PSK constellation showing the effects of phase noise

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